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and West Coast Ham Ads

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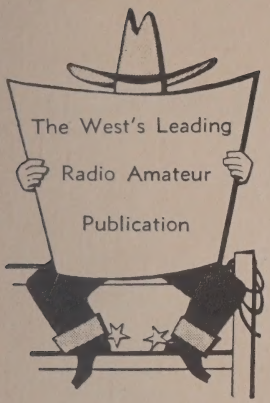

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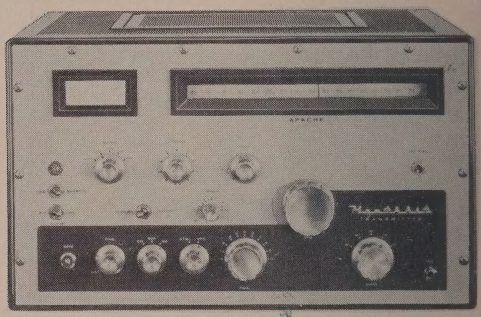
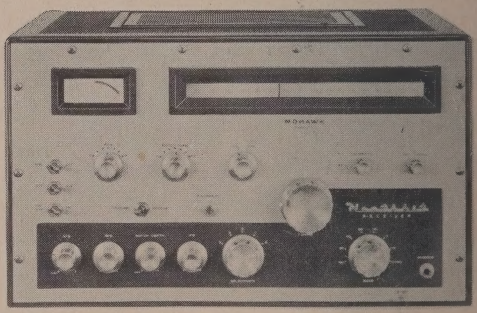
Editorial

Art W. Brothers W6IQJ





While at the South East Radio Club meeting a few weeks ago one of the fellows asked why Western Radio Amateur doesn't promote a mobile frequency for the L.A. area. Poor misguided me, I thought there was a sort of standard... the high end of 75. "So how about ten meters." I must confess that I didn't know if there was an accepted 10 meter mobile frequency. My suggestion was and still is this: If you feel interested enough to push your club to bring this up for the L.A. Council of Radio Clubs consideration, Western Radio Amateur will print a monthly box listing mobile frequencies for various areas. Ferinstance, Northern Utah and Southern Idaho mobile frequency is 3935 kc.

HIGH POWER

As a result of the March Editorial concerning the FCC and over power, several interesting letters were received. A number of these letters attacked me as a defender of the criminal element of our society, as one who stomps people in dark streets and how dare you condone high power, etc. One simple observation...37 percent of those letters were unsigned or otherwise not traceable to the writer.

NEW GOODIES

Somewhere around here are pix of the newest Heath goodies. One is a receiver, the other is a transmitter. Write Cliff Edwards at Heath for the full dope, and tell him Western Radio Amateur sent you, OK?

INCIDENTAL INTELLIGENCE

After the Oscars had been passed out...for various things, I sat gathering cobwebs. Seems as how while I was in Japan a good friend of mine introduced me to his sister, Meoshie. I dated this charming girl several times. Many of you heard her sing and knew her as Nancy Umeky, the girl who sounded more like Doris Day than Doris did. She had a nice apartment in the outskirts of Tokyo. Phone TOkyo 49-1278. Anyway...well I don't want to bore you with MY war stories.

Sayonara, Art, W6IQJ

****

Loupin The Loop

By Corky W6ORS
1833 Vega St. Alhambra, Calif.

Wow, whata mail bag this month. The request for Radio Club Papers has not gone unheeded and we will be forever in your debt. Thanks to all you Editors for putting us on your mailing list... Since the coming season of summer is close upon us, and the ham fests, picnics and other get togethers will need that publicity for greater attendance, a note by the 15th of the preceding month will have the info into the next issue of this here mag. First of these have come in from the San Berdoo Microwave Society with the announcement of a Microwave get together for the first week in June. New officers for this club of UHF and SHF enthusiasts are: W6IFE Pres; W6RNA VP; W6OYJ and K6LZF Secty's; and W6VIX as Moneybags... Talked briefly to my old buddy W6AEA Hal Tuncil up in Mission San Jose the other day. Think it was on 40 meters that I heard his voice, so tuned up and said hello...K6SOU has his general now after fighting the battle of the TVI band. Think this guy might be a Tfk man, Vic. How about sending him a copy of PAN News? Heard W6RJS SW LA calling W6IHK on 2 meters the other day. What's so good about that, you say. Well, IHK was on 1296mc and I think at Green Valley. Here's news for RJS tho--it wasn't IHK's sigs you heard at 3pm that day, it was K6GTG in Arlington that was copying you and therefore the return that you heard...K6SLB worked KC4AF on 75 SSB...W6HF drives a Mercedes, W6DOU a VW, W6QID a SIMCA that looks like mine, W7WIG a Volvo, W6SVF in either of TWO Jags...W6NSG skooting in a 4CV Renault, W6DNJ just ran me down in a Porche, and last for this month, W6MLV in a Simca. Also outside of the ARSCC, I saw W6FXN in a Caddy, Guess this club is off to a good start. Do you know what the freq is for 220mc CD check-in? With 5 MC to play around in on this band, it seems that most QSO's are carried on at this freq. How about staying off of 221.5mc and use it for a Call and Distress freq. only, instead of a ragchewing spot? I see by the paper that the San Francisco RC have their programs all lined up clear into July. From an Auction to John Reinartz K6BJ shows the forward thinking of this club...Hillis Hauck K6DQA a new member of Tri County RC...W6QHP latest addition to the mobile set.. VE4IF teaching code to a class of 14... The Channel cities 2 meter net tried checkin by MCW the other night only they forgot to tell NC W6AMD first. Tis told that Roy came thru as all good hams should...Don't forget ARRL Convention on June 7 & 8. No flyers as yet, but be there for the big purge yet, but be there for the big purge of AM by the SSB boys...The Rio Hondo RC captured the gavel of the Romona RC last month. Tis told that they plan to get it back at the first chance. This is the latest thing in SoCalif. Just take 10 members of your club to another clubs meeting, and walk off with their gavel. To regain it, 10 members must attend the other club meeting. The Downey RC were the first to make the formal announcement of this activity in these pages of Western Radio Amateur. W6KBZ made general. K6CRJ has deserted 2 meters for 10 meters. We hope not for good, Doc...Long Beach Hobby show will be on the air May 16 thru 19 in the form of W6PMO, club call of the Assoc. Radio Amateurs of Long Beach. Best of luck to Al W6KQI and his gang for a successful representation of The Radio Amateur...W6VSH addressed the IRE PG Vehicular Communications last month...San Gabriel Valley RC has 94 members now. I don't think that the Tracking Station and all the National publicity has hurt this Radio Club at all, do you? The Radio 50 Club of Calif. had their annual banquet last month at the Moulin Rouge in Hollywood. A grand time was had by all...Here's a good stopping point. Mainly because it's about 11:30 am and time to leave for the Ball game. Yup, the LA Dodgers and the SF Giants are playing, and this op has box seats. So if you will pardon me, I will stoke up the mobile and take off for the ball game.

Best of 73 es CUL

EXPERIMENTS IN STABILITY

A. D. Mayo W5DF
209 Conte St.
Jackson, Mississippi

Here is a cheap and easy solution to a hard problem facing hams today. The problem is: How to obtain clickless, chirpless keying, plus no frequency drift, plus ease of setting VFO frequency accurately.

Before we look at a technical description of the device that solved the problem let us review some conditions that exist, and some definitions.

Clicks are merely shock waves, or any wave shape that deviates from a slow turning on and turning off the carrier. A carrier can not be turned on instantly, or without the lapse of any time. If it should be turned on without the elapse of time it would have to rise in intensity so fast it could not stop rising when it reached the amplitude we want it. Then after this energy had spent itself it would swing down erratically, possibly even below the normal power level. In the process, circuits would be excited at frequencies removed from our operating frequency and the clicks may extend far either side of the signal.

Simple circuits are easily connected, to slow down the rate of rise of power or amplitude in keying. Unfortunately this often brings on other troubles.

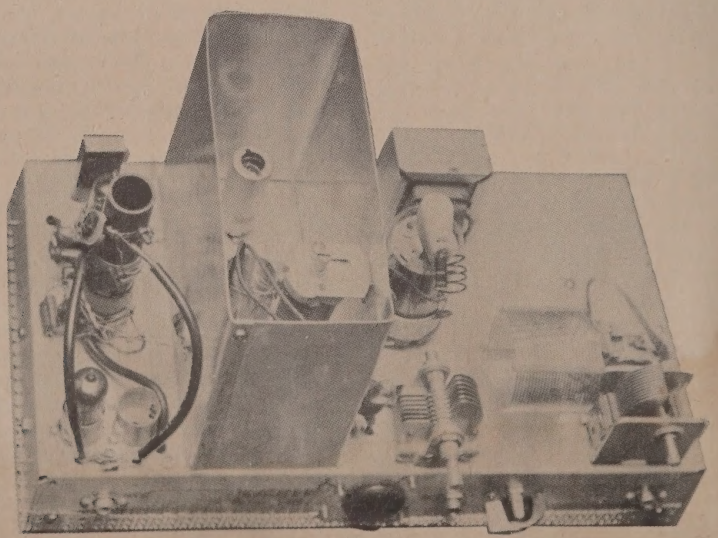
Chirp is a change of frequency under keying. An oscillator may be perfectly steady under a stable oscillating condition, where the various variables have come into a state of balance. The same oscilator may oscillate at a different frequency at a lower plate voltage, lower grid bias, or different load conditions.

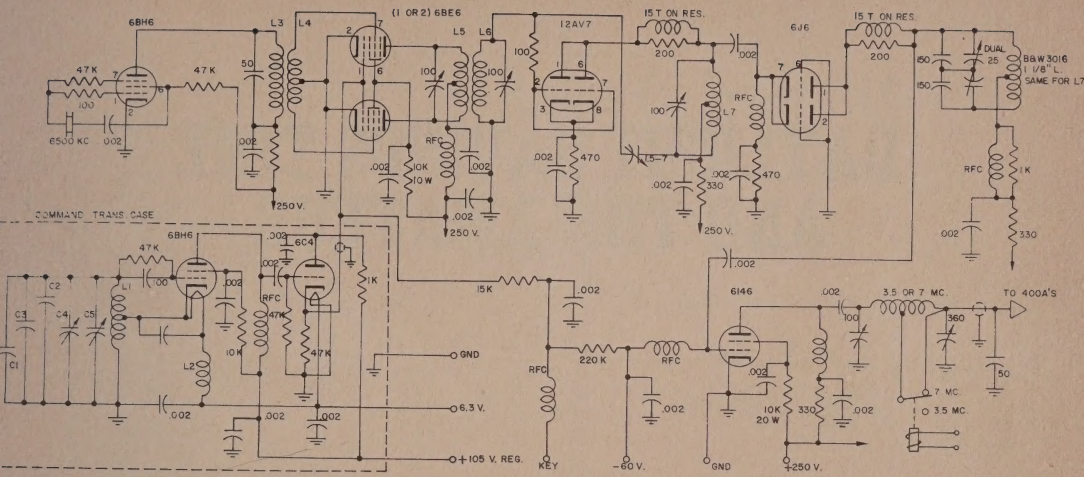
When an oscillator is keyed it is either totally off or totally on. Since the conditions are entirely different in these two states, a change of frequency often results. At best, we try to key it fast, to minimize the time it stays at a frequency different than the steady condition.

So far we have now worked ourselves into a corner — key fast to minimize chirp — key slow to minimize clicks. Over the years many subterfuges have been put out alleging to get around these troubles. Today the keyed Clapp oscillator is better than the types it has replaced. In general, this is good enough. However, the state of the art permits better and to this end we always proceed.

SOMETHING BETTER

Stability can be secured by letting the oscillator run continuously. If the oscillator operates off the desired operating frequency or on any sub-miltiple of that frequency it can't be heard in the receiver. For example,





if we put a VFO on 3 megacycles, then let it beat with a 6500 kc signal from a crystal oscillator to produce 3500 kc. Then if the mixer is keyed the 3500 kc. signal will not exist, key up.

This theory sounds good. Research turned upon article in QST for June 1952 by W6OWP describing a heterodyne exciter and his design was used as a starting point.

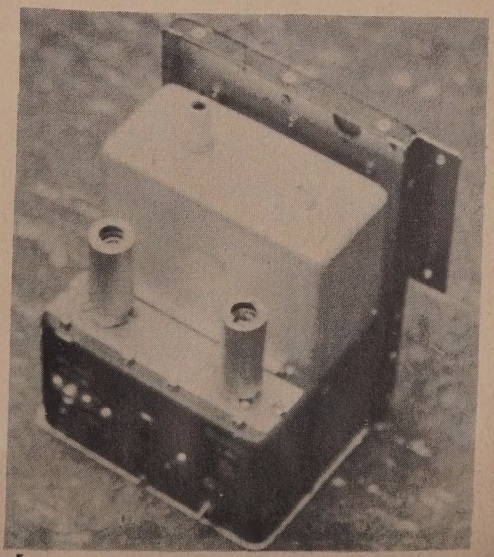
The unit shown in the pictures and the circuit diagram was built up. The exciter chassis is remotely located from the VFO, and it uses power supplied from my transmitter. The exciter normally supplies excitation at 3.5 mc, but it supplies excitation at 7 mc when the relay is closed, shunting out a part of the output coil. My transmitter picks up 7 mc and multiplies it automatically for the band selected.

Difficulties with spurious signals never developed. The four tuned circuits at 3.5 mc seem enough to reject 3 mc and 6500 kc. While these signals do exist, they are about 70 db down in the output. They can't be heard 1 mile from my station. The mixer is worked at an extremely low RF level, and it is keyed by grid blocking. The keying can be shaped as desired at this point with no interaction on the oscillator frequency.

After this unit had been in use about a year, I noticed one day that one of the 6BE6 mixer tubes had turned white inside. It had burned out. This balanced mixer is supposed to balance out 3 mc energy from the VFO. I checked and found there was nothing coming through on 3 mc, but was still getting plenty of excitation to the transmitter. After removing the defunct 6BE6, the circuits were realigned and the unit operated normally. This led me to the statement that the unit works equally well with one or two balanced mixer tubes.

In regard to the VFO, and how to obtain a unit free of drift, able to be set to a certain frequency easily, free from jumping of frequency, to my knowledge there are two ways to obtain a stable VFO. The first is to purchase the Collins PTO unit, however this was more expense than was justified for me. The second way is to use a Command set oscillator. There may be other ways, but I have never been successful in obtaining a stable VFO in other ways.

Cont. on page 31



DAYLIGHT SAVINGS TIME AND THE AMATEUR

E. H. Marriner
528 Colima St.
La Jolla, California

Due to the change of time we get mixed up in our skeds . . . how often have you heard that remark on the air? Mr. Bill Willett who thought up Saving time back in 1907 probably did not think of the confusion he would cause the amateur 50 years later. If he were a DX hound tyring to verify QSL cards kept in Daylight Savings Local Time he might have been a little more lenient. Daylight saving is the question of the hour, its about all that anybody can save these days. Its gotten to be the time when the only chance to see the night is in the morning.

The poor old guy thought his scheme would secure more leisure and recreation for the human race, including the amateur. I almost find this hard to believe because my built-in alarm clock just doesn't sync right and wake me up at the right time for DX and I can't keep from thinking it is 5 A.M. when it is really 6 A.M. Daylight Savings Time. This also makes it an hour too early for those ZS openings which now come in after I leave for work at 7 A.M. daylight Savings Time.

From humble beginnings in Great Britain Daylight Savings spread throughout the world after 1916, despite much opposition from the scientists who foresaw the confusion which would occur in our log keeping if this went into effect. Thus in April of each year daylight savings time takes effect and lasts until the last Sunday in October when Standard time takes over the control again.

Just how many amateurs are plagued with this confusion is unknown. Many states will have daylight savings time only to have a county in the state retaining standard time. For log keepers, the states which have full daylight time are: Main, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New York, New Jersey, Pennsylvania, Delaware, Nevada, California, Wisconsin, Minnesota and Indiana . . . a number of others where rural political power is strong it is only a local scale — bless 'em. The whole thing is such a mess the Naval Hyrographic Office gave up trying to draw up an accurate National picture of daylight savings time as there was no mechanism for collecting the data.

We amateurs have a simple out by keep nig our logs and QSL cards in GMT, Greenwich Meridian Time, which is something we can all hang out hat on as being constant. The following charts, courtesy Western Radio Amateur, can be clipped and stuck under the glass topped desk for reference when checking those QSL's against the log book.

Conversion Table To Convert Standard Time To Daylight Time

	Pacific		Mountain		Central		Eastern	
GMT	PST	PDT	MST	MDT	CST	CDT	EST	EDT
0000	1600	1700	1700	1800	1800	1900	1900	2000
0100	1700	1800	1800	1900	1900	2000	2000	2100
0200	1800	1900	1900	2000	2000	2100	2100	2200
0300	1900	2000	2000	2100	2100	2200	2200	2300
0400	2000	2100	2100	2200	2200	2300	2300	0000
0500	2100	2200	2200	2300	2300	0000	0000	0100
0600	2200	2300	2300	0000	0000	0100	0100	0200
0700	2300	0000	0000	0100	0100	0200	0200	0300
0800	0000	0100	0100	0200	0200	0300	0300	0400
0900	0100	0200	0200	0300	0300	0400	0400	0500
1000	0200	0300	0300	0400	0400	0500	0500	0600
1100	0300	0400	0400	0500	0500	0600	0600	0700
1200	0400	0500	0500	0600	0600	0700	0700	0800
1300	0500	0600	0600	0700	0700	0800	0800	0900
1400	0600	0700	0700	0800	0800	0900	0900	1000
1500	0700	0800	0800	0900	0900	1000	1000	1100
1600	0800	0900	0900	1000	1000	1100	1100	1200
1700	0900	1000	1000	1100	1100	1200	1200	1300
1800	1000	1100	1100	1200	1200	1300	1300	1400
1900	1100	1200	1200	1300	1300	1400	1400	1500
2000	1200	1300	1300	1400	1400	1500	1500	1600
2100	1300	1400	1400	1500	1500	1600	1600	1700
2200	1400	1500	1500	1600	1600	1700	1700	1800
2300	1500	1600	1600	1700	1700	1800	1800	1900

GMT	PST	DST	Greenwich - London - Barcelona Glasgow - Madrid - Dublin - Lisbon.	California - Portland - Juneau Ketchikan - Vancouver - S.F. L.A.	California.	Monrovia - Dakar - Reykjavik	Azores Islands	Buenos Aires - Rio de Janeiro Recife - Montevideo	La Paz - San Juan - Santiago Bermuda	New York - Washington - Boston Detroit Lima - Havana - Miami	Mexico - Chicago - New Orleans Houston - Guatemala -	Salt Lake City - Denver - Phoenix	San Francisco - Los Angeles- Seattle - Juneau - Portland	Whitehorse	Honolulu - Fairbanks - Anchorage	Canton Island - Samoa - Nome Midway Island	Auckland, N.Z. Suva - Wake	Noumea, New Caledonia	Sydney - Melbourne - Guam	Tokyo - Okinawa	Manila - Canton - Hong Kong Shanghai - Peiping	Bangkok - Saigon - Chungking Rangoon	Karachi - Delhi - Calcutta	Teheran	Bagdad - Dhahran - Basra	Johannesburg - Istanbul - Cairo Athens - Helsinki - Beirut	Paris - Oslo - Rome - Vienna Berlin - Stockholm - Amsterdam
0000	1600	1700	1700	2100	2200	2300	2200	2100	2000	1900	1800	1700	1600	1500	1400	1300	1200	1100	1000	0900	0800	0700	0600	0500	0400	0300	0200	0100
0100	1700	1800	1800	2200	2300	2000	2300	2200	2100	2000	1900	1800	1700	1600	1500	1400	1300	1200	1100	1000	0900	0800	0700	0600	0500	0400	0300	0200
0200	1800	1900	1900	2300	0000	0100	0000	2300	2200	2100	2000	1900	1800	1700	1600	1500	1400	1300	1200	1100	1000	0900	0800	0700	0600	0500	0400	0300
0300	1900	2000	2000	0000	0100	0200	0100	0000	2300	2200	2100	2000	1900	1800	1700	1600	1500	1400	1300	1200	1100	1000	0900	0800	0700	0600	0500	0400
0400	2000	2100	2100	0100	0200	0300	0200	0100	0000	2300	2200	2100	2000	1900	1800	1700	1600	1500	1400	1300	1200	1100	1000	0900	0800	0700	0600	0500
0500	2100	2200	2200	0200	0300	0400	0300	0200	0100	0000	2300	2200	2100	2000	1900	1800	1700	1600	1500	1400	1300	1200	1100	1000	0900	0800	0700	0600
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0700	2300	0000	0000	0400	0500	0600	0500	0400	0300	0200	0100	0000	2300	2200	2100	2000	1900	1800	1700	1600	1500	1400	1300	1200	1100	1000	0900	0800
0800	0000	0100	0100	0500	0600	0700	0600	0500	0400	0300	0200	0100	0000	2300	2200	2100	2000	1900	1800	1700	1600	1500	1400	1300	1200	1100	1000	0900
0900	0100	0200	0200	0600	0700	0800	0700	0600	0500	0400	0300	0200	0100	0000	2300	2200	2100	2000	1900	1800	1700	1600	1500	1400	1300	1200	1100	1000
1000	0200	0300	0300	0700	0800	0900	0800	0700	0600	0500	0400	0300	0200	0100	0000	2300	2200	2100	2000	1900	1800	1700	1600	1500	1400	1300	1200	1100
1100	0300	0400	0400	0800	0900	1000	0900	0800	0700	0600	0500	0400	0300	0200	0100	0000	2300	2200	2100	2000	1900	1800	1700	1600	1500	1400	1300	1200
1200	0400	0500	0500	0900	1000	1100	1000	0900	0800	0700	0600	0500	0400	0300	0200	0100	0000	2300	2200	2100	2000	1900	1800	1700	1600	1500	1400	1300
1300	0500	0600	0600	1000	1100	1200	1100	1000	0900	0800	0700	0600	0500	0400	0300	0200	0100	0000	2300	2200	2100	2000	1900	1800	1700	1600	1500	1400
1400	0600	0700	0700	1100	1200	1300	1200	1100	1000	0900	0800	0700	0600	0500	0400	0300	0200	0100	0000	2300	2200	2100	2000	1900	1800	1700	1600	1500
1500	0700	0800	0800	1200	1300	1400	1300	1200	1100	1000	0900	0800	0700	0600	0500	0400	0300	0200	0100	0000	2300	2200	2100	2000	1900	1800	1700	1600
1600	0800	0900	0900	1300	1400	1500	1400	1300	1200	1100	1000	0900	0800	0700	0600	0500	0400	0300	0200	0100	0000	2300	2200	2100	2000	1900	1800	1700
1700	0900	1000	1000	1400	1500	1600	1500	1400	1300	1200	1100	1000	0900	0800	0700	0600	0500	0400	0300	0200	0100	0000	2300	2200	2100	2000	1900	1800
1800	1000	1100	1100	1500	1600	1700	1600	1500	1400	1300	1200	1100	1000	0900	0800	0700	0600	0500	0400	0300	0200	0100	0000	2300	2200	2100	2000	1900
1900	1100	1200	1200	1600	1700	1800	1700	1600	1500	1400	1300	1200	1100	1000	0900	0800	0700	0600	0500	0400	0300	0200	0100	0000	2300	2200	2100	2000
2000	1200	1300	1300	1700	1800	1900	1800	1700	1600	1500	1400	1300	1200	1100	1000	0900	0800	0700	0600	0500	0400	0300	0200	0100	0000	2300	2200	2100
2100	1300	1400	1400	1800	1900	2000	1900	1800	1700	1600	1500	1400	1300	1200	1100	1000	0900	0800	0700	0600	0500	0400	0300	0200	0100	0000	2300	2200
2200	1400	1500	1500	1900	2000	2100	2000	1900	1800	1700	1600	1500	1400	1300	1200	1100	1000	0900	0800	0700	0600	0500	0400	0300	0200	0100	0000	2300
2300	1500	1600	1600	2000	2100	2200	2100	2000	1900	1800	1700	1600	1500	1400	1300	1200	1100	1000	0900	0800	0700	0600	0500	0400	0300	0200	0100	0000

DX report

Dick Spenceley KV4AA
Box 403, St. Thomas
Virgin Islands

The Ohio Valley DX'pedition to Navassa Island is now history and we salute the imposing efforts and accomplishments of Messrs. W8FGX, W4KVX, W8RSW, W8EZF, W2NSD and others who made this venture a tremendous success. Determined to put some rare spot on the air after a last minute refusal by Mexico to allow them to land on Socorro Island (XE4) the boys aimed at Navassa. Miami was visited in a effort to charter a boat without success. Finally a boat was obtained in Nassau, Bahamas, and the expedition sailed around March 20th signing KC4AF/MM. Off Haiti a storm cost them a day when they were forced to lay-to. Navassa was finally reached late on March 24th but rough seas thwarted several landing attempts until March 26th when the landings were made. Seemingly insurmountable difficulties were overcome in getting all the gear up the cliffs, faulty winch etc., and KC4AF finally got on the air on the evening of the 26th. From then on there was nary a dull moment and over 6000 (count 'em) contacts were made on all bands, cw, SB and AM until the big switch was pulled six days later on March 31st. 24 hour operation was the rule and two separate stations, 300 yards apart, were in operation most of the time. Equipment included two Hallicrafters HT-32's, one 600-L wide band power amplifier, two Gonset 6 meter Communicator III's, one 75A-3, two 40 foot crank-up towers, one Mosley tri-band beam and one Hy-gain tri-band beam. Truly a de-luxe jaunt and if anyone needs Navassa now it's just their own fault. QSL's go via W8TJM or W8JIN and KC4AF cards should be in appearance as this is read. As the trip was underway word was received that permission had been granted to visit Clipperton Island. While this was received too late to be effective it opens the door for the next Ohio Valley DX trip in 1959 or earlier.

F8FC and ON4AU plan to be on from Andorra again, signing PX1FC, for two weeks in July. They will run 300 watts and be on 24 hours per day. F8FC will be heard from Corsica during August signing F8FC/FC with portable rig.

I1ADW contemplates another San Marino trip this Summer. If this jells other operators will probably accompany him as sleep posed a problem on last trip. Better rig will be used.

In answer to several inquiries re ZA1ADG we can only hazard a guess that he was the YU that planned a stay in Albania. QTH given was Box 19. Tirana. Time will tell...

W3HGP plans a trip to FP8-land in June.

OK1MB reports activity from HND9A on 14040 at 1800 GMT. QTH given was: Duane Fuqua, Daura Refinery, Box 278, Baghdad, Iraq. "HN" is OK as an Iraqui prefix but we don't dig the extra "D"! Beda also advises that DL5BY will be on for those working towards WPX.

Current rumors point towards activity from EA9AW in IFNI during mid-April. We believe he is a phone man.

ZD7SA, presently popular on 28040 to 18060 gives QTH as: Bob Freese, c/o Post Office, St. Helena. Bob is also on phone, on 28 mc., he promised to be on 14 mc. as soon as other rig is fixed up. His stay there is indefinite.

3A2AH, QSL manager for 3A2, advises that 3A2CF is NG! Last call issued there was 3A2CE.

Bob, W4KRF, goes to KG4-land in July as C.O. of Marine Barracks there. A little cw will be welcome from Guantanamo.

Dick, W3PZW, recently QSY'ed to Canton Island, W3PZW/KB6. He skeds dad, W3WV, and will be on 21mc until 14 mc rig is set up.

CN8GU can help with skeds for QSO's with FL8AC.

Larry, SVØWP, reports new op at SVØWK, Crete. QSL to Lt. Col. Berry, APO 291, N.Y.

KX6BP holds forth on 14029 around 1200 GMT. QSL's go to Sgt. Gene Mroz, 1253 AACS SQ, APO 187, San Francisco.

W7FZA hears Matt, ZC3AC, on phone, 14107, 1500 to 1630 GMT.

W2IWC reports a K8 in T12-land who plans activity from Cocos, T19, during weekend of April 12th...

Noel, VP5BP, was on phone from the Caymans around March 25th, 28450.

Those needing Vermont for "WAS" should tune for Bob, W2CTO, and Ken, K2BU, who will be on from that state from May 29th to June 1st. CW frequencies are 14010 and 14110 plus some SB

on 14270.

Mal, ZE3JO, writes that he will be on a photographic ham safari between June 7th and 14th. During that period he will appear as ZE3JO/ZD6, VQ5JO, VQ4JO and VQ3JO. He will be using the same B2 rig as used at VQ1JO in '56 with an input of 20 watts on cw and phone, xtal. Will QSL 100% upon return to ZE3-land.

HKØAI was worked on SSB April 11th thus confirming the HKØ expedition of TI2HP and VE3MR as mentioned in the April issue. QSL's go via TI2HP.

Mike, VK9JF (Cocos-Keeling), expects to QRT in June and be married in VS1 in July.

VE1EP was heard working VQ8AJC, Chagos, on 14045 at 1130 GMT.

Jack, W7FNK, now signing KP6AL on Palmyra wishes to advise the DX gang that QSL's should go via the W7 bureau or W7FNK. Jack completed WAZ at KP6AL after six weeks effort plus 104 countries.

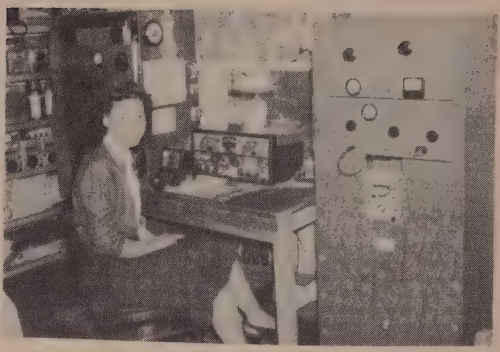
LAST MINUTE ITEMS

Maldive Island activity is finally blossoming. Barry, VS1BB, arrived there on April 19th and came on the air as VS1BB/VS9 around 1120 GMT on the 20th. He was promptly nabbed by W1FH and W1-BPD. He runs a DX-35 rig and puts a fair signal through to W-land. His xtl frequencies are 7010, 7025, 7040, 7100 and 7150 plus multiples thereof. His stay is three weeks which may mean that he is still on as this is read. Main QRG's on 20 seems to be 14082 and 14052. Those missing Barry will be glad to know that VS1JF also leaves for the Maldives during the week of April 20th for a SIX MONTH stay and has been granted permission to operate from there. QTH of VS1BB is: Barry M. Bonser, R.A.F. Station, Seletar, Singapore.

ZD7SA, St. Helena, now operates on 20 and has been heard near 14070 around 2230 GMT. After May 1st. QSL's for Bob, ZD7SA, go via CN8GU. Self addressed, stamped, envelope should be enclosed. CN8GU: Ray Donovan, 1975 AACS, APO 117, N.Y.

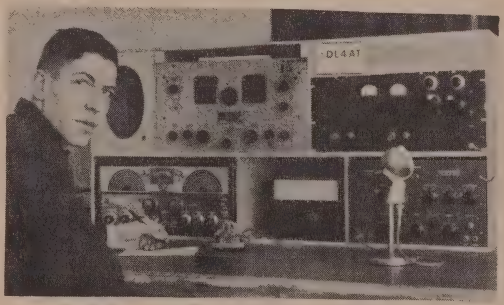
Too late to be of much use (hope you got 'im) is word that PYØNA will operate from Trinidade Island for a 24 hour period starting 2000 GMT on April 24th. He will be on 14125 phone and, we understand, will answer CW calls on that frequency. Trinidade will certainly qualify as a new country and, of course, is quite different than the other PYØ island Fernando da Noronha.

Rumor has it that QST will announce two new "countries" in May. They are Lord Howe Island, some 400 miles off the east coast of VK2 and Chatham Island, about 500 miles east of New



Aleta Cash, K6ENL, Fair Oaks, Calif.

Ray, DL9ZE, Bonn W. Germany



Heinz, DL4AT. XYL is DL4ABS.

George Scott, W6IKG, Sepulveda, Calif.

Zealand. VK3CX advises that VK2AR is on Lord Howe (or VK2FR) while ZL3SK inhabits Chatham. Frequencies or mode is unknown as yet.

Some say that UAØIJ has given the QTH of Beringowskij Base, Wrangel Island, while others state that he is not on Wrangel. UAØIJ said he was near KL7 so we are inclined to believe the latter. Another source says that UAØKSI will operate from Wrangel during the forthcoming U.S.S.R. contest May 10-11th.

Activity has been reported from VR1C, near 14066. QTH is given as: U.S. Coast Guard Station, Makin Island, Gilbert and Ellice group.

W3PZW/KBY continues from Canton Island and is on 14mc now. In the first 2 weeks Dick ran up over 1000 QSO's. During the 1959 ARRL DX contest he plans to work first half at KB6 and second half at KS6.

VS90 is reported from Oman running a KW on CW and phone. Heard on 14020 and also works 28 mc.

If VQ3CF can locate a suitable rig he plans to DX'pedite to VQ1-land.

Les, ZB2X, was worked on 14050 at 2150 GMT. ZB2B also active.

An HB9 advised W8PQQ that 4UZA (United Nations call) would soon be on 14265, no QTH given as yet.

W6NZW says China stations seem to be coming on, in force. He worked C1A who gave QTH as c/o Radio Peiping, besides others. Standard line is "world for peace" etc. etc. 14046 kc, 0730 GMT.

EA2CA hopes to be on from IFNI in June if plans work out.

KV4AA was happy to log visits from: K2YMB, K2SBU, W2CC, W5FGO and K2CJN.

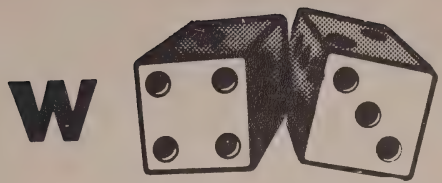
YASME II

Danny sailed from Poole, England, at noon (GMT), April 12th after appropriate send off by the Mayor of Poole, TV cameras etc. High winds and rough seas were encountered which resulted in flooding the automatic pilot. The next day Danny put into Torquay, some 80 miles down the channel to dry out the auto-pilot and let the weather abate a bit (he was seasick as a dog). Leaving Torquay the next day he discovered a large leak in his fresh water tank which necessitated a call into Falmouth to repair this important item. Flooring was taken up and the tank was taken ashore and welded. During this time word was received that a spare dynamotor (for auto-pilot) had been received for him in Southampton (this item had apparently been shipped him by ship mail and not via air as expected). Chafing at the bit Danny waited another two days for this item to a-

Cont. on page 28

Barbara Wood, K6YOH. Barbara's dad owns Woody's Electronics out in N. Hollywood.

Pearl Kempton the only YL surplus dealer in Culver City. Pearl is studying for her ticket and should be on the air soon.



W NEWS

By

Howard S. Pyle "YB" - W7OE

3434 74th Ave. S. E.
Mercer Island, Washington

How these months roll! What with working for a living, writing for relaxation (?) and 'hamming' for a hobby, 'dere jest ain't enuf hours!

Jim Cummings VE7TF and his charming wife and two children paid us a surprise visit one Saturday; we consumed HOURS in intensely interesting chit-chat, ham-wise and otherwise, Jim tells me that Canadian hams have a somewhat rougher time than we do...that they are much more rigidly supervised and monitored. His new CW traffic net, "BCN" is about to file for affiliation with ARRL National Traffic System.

Following Jim's visit, we had the pleasure of entertaining Al Hibbard from Pennock Island, Alaska. Al formerly held 7PQ, way back when and recently got the urge to get back in the ham game again (don't we all, after leaving it!). He's been inactive for SIXTEEN years and is taking no chances on missing the boat in the ham exam; he took time off from his electrical work in Alaska to come down and enroll with Roy Layman in the Northwest's oldest Radio School (founded 1914) where he is intensively copying tape and studying theory! Won't be long before he'll add his SSB and CW operation to the KL7 group.

Whispers of Field Day plans are growing louder; have had a few phone calls from this and that club looking for a good location.

The 'Old Time Ham Museum' sponsored by Quarter Century Wireless Association and for which I act as 'curator' in Seattle, is growing daily not only in popularity, but in contributions of equipment. Ran into a veritable 'bonanza' the other day when Roy Layman, Director of Washington Radio & TV School in the Seattle "Y" called me to say that he wanted to clean out the basement at the schools and it was LOADED with old time commercial gear! Not now, it ain't! I simply 'drool' over the old Marconi Wireless 1912 Type 106-D receiver and the two old SE-143 World War I Navy jobs I'm restoring to 'new', plus big bunches of smaller stuff! And, the Seattle TIMES became enthused over the 'unique' museum, photographed it and are carrying a feature article in the Rotogravure section on it. (Sure, I authored it... we gotta have it the way WE want it, don't we?).

QCWA members of the Northwest Chapter are looking forward eagerly to their next banquet-meeting which, this time will be held in Portland on dates to co-oncide with the famous Portland Rose Festival. I HOPE I can go...that's the height of our fish-run and I MAY have to stay here and nurse-maid the scaly little monsters! Anybody know where I can get a job staying home, writing and drawing, except on the days I pick up a fat check for so doing?

Looks like it's between Bob, W7PGY and myself for the SCM job in Washington; ballots have been distributed... votes will be counted and winner (?) announced before you read this. Hope YOU get it Bob...I'm all for giving Vic Gish, W7FIX, a rest from it, but how'm I going to fit the time in?

Nice letter from Walker A. Tompkins, author of "SOS at MIDNIGHT" (that dandy ham fiction book which I neglected to give the title of in my book review in the Feb-March issue (.). I wrote and apologized but he wasn't even SORE! Instead, sent me a nice photo of his charming XYL and three little harminics. Thanks Tommy...hope to work your K6ATX some-day. Incidentally, hope you saw my apologetic 'slug' for "SOS" in the April issue! That fix it?

Also nice, newsy letter from Al Wolfe, W7SOY, Secretary of the Lake Washington Amateur Radio Club. Seems like even CLUB'S have to kinda clean and polish around the joint now and then; Al says "We had clean-up day at the ham shack (W7BB) last Saturday (April 12th) for several hours. It was pretty warm and the boys working in the blackberry vines in back, soon departed for refreshments. No problem here because W7-

Cont. on page 24

VHF Record

Correct us if we're wrong..but this 88 element 220 array looks to be the largest in the west today. Bill, K6GTG, uses this to load down his pair of 4X150B's from Arlington, Calif.

Robert B. Cooper, Jr. K6EDX
4832 North Fruit Ave.
Fresno 5, Calif.

The secret is out, the story is about to be released. What secret? Which story?

220 of course. This summer is earmarked as the biggest 220 meg push ever experienced by the VHF clan. From Seattle to San Diego, western VHF men are preparing gear, building huge arrays, and generally getting set to "bring home the 220 record"! Last month we mentioned the project's ground work done by George Alcott, K6PBW, and a few other miscellaneous facts. We now have detailed information from both ends of the land of sunshine and smog but still nothing factual concerning work being done in "outlying" areas.

Two plots unfold to the careful observer. First off, we have the general feeling that 220 is the next world to conquer, and the resulting agreement to get something on the air soon, even if it's just a 6360 stealing voltages and modulation from the six meter rig. Once we have some 220 rf in the air, and a few more fellows listening on a regular basis, the large arrays and higher power will follow.

The second part of our two section drama is the DX scene. Propagation wise, 220 is theoretically better than 144 for tropospheric bending, ducting, etc., while less susceptible to Sporadic E skip (in itself a rare 144 occurrence). Meteor scatter work should be around 20db down from two meter levels. This would place it on the threshold of the upper limit for practical meteor burst work, but several factors here to date unused on 144 could make it every bit as good as 144, during optimum times and dates.

Many of us have had Sporadic E experience, and know of the tremendous increase in the E layer MUF during many E skip openings. An MUF of 100 megacycles is often reached during the summer months. And, what is more important, there are a few strong daytime meteor showers during the months of June and July. Combine a moderately strong E skip session with a high radio count meteor shower, and you have 220 megacycle meteor bursts with no more effort than a winter shower requires on 144. QST will soon be publishing an article by your's truly on this topic in which more detailed information will be found. Meanwhile think about combining both types of propagation for some 220 records.

Tropospheric scatter is also quite optimum at 220 megacycles, and to this end, Bill Locy, K6GTG, Arlington, California is already running skeds with his 44 element HORIZONTAL beam. A pair

of 4X150B's do the rf work with a prototype 220 FILTER KING converter (A la Paul W6BAZ) receiving. Bill's beam is switchable to 44 vertical elements too. Bill reports 220Mc stations active in the greater LA area number 135 not counting those in surrounding locales. (Such as San Diego, Oxnard, Santa Barbara and Oakland.) As can be seen in the accompanying tin plate, the entire 88 (8-11 element Cushcrafts) was once vertical. However the 88 vertical was to sharp, and even slight rotor drift caused QSB. Four watts works mobiles up to 110 miles away on their way over the Grape Vine into Bakersfield. Skeds? You bet, "any time, any direction" says Bill. His scatter test code wheel is running nightly (began May 1) on 221.500; East, 0000-0600, north 0600-0700. Give a listen and let Bill know what you hear. (Let us know too.)

A pair of 4X150B's allows Bill to fight it out with the local channel 13 on the neighbor's TV sets.

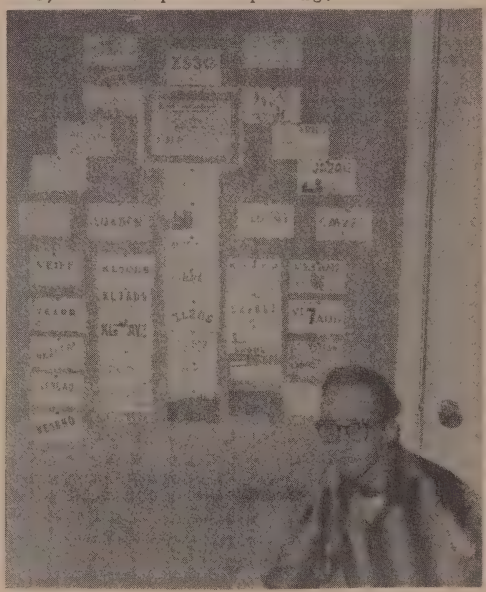
TWO METER CHUCKWAGON

One of the longer regularily paths covered on 144 these days is from W6AJF Sonama to W6FZA, Porterville, a distance of 275 miles. Frank and Alan have been going at it with amazing results for several months now, often carrying on in a rag chewing fashion. Al is currently "pushing" 200 watts to his 4X250B and an 8 element long yagi (well, sort of long) flip-flop fashion. Located in Porterville, he gets it from both directions, horizontal Northern California and vertical Southern California. A larger array is under construction as is a 432 tripler-amplifier to follow the two meter final.

W8KAY informs us via W7QDJ/7 that Wyoming is now represented on the two meter map by W7LVU, Casper. This leaves Idaho without substantial two meter representation. (Let's go Louie!)

W7MAH is currently delighting the No. Calif. VHF crew with kind words about putting on gear for 144, 220 and 432. John's been so pleased with 50 mc that he's ready to put Reno on the map across the whole VHF spectrum.

You are reminded of the two meter laison net on 14.095 nightly, 2030 PST. (Probably switch to 2030 PDST before this is read.) W6NLZ, KH6UK, W8KAY, W5VWU, others participating.



For the first time in print...The west coast's answer to W4UCH. Bob Grimm. K6RNQ of Oakland, Calif. with some of the DX cards that have made him famous. Let's see, KX6BQ, ZE2JV, ZS3G, VK4IJ, CX2RE

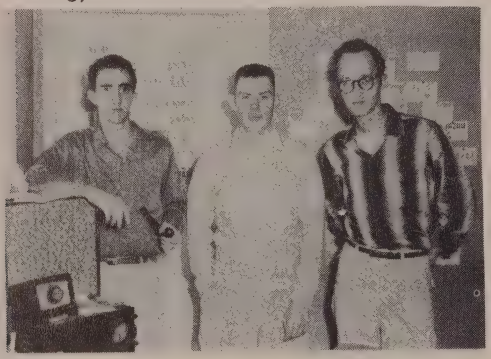
Number one chief Op on 6 and 2(and 432 soon) from Porterville, Calif. Alan Margot, W6FZA is showing us how it's done...listening for EI2W we mean. One late card from LU land will give Alan his WAC sheepskin.

DX BAND

(Liberal Translation...Six Meters)

Our thanks again this month to Robert Never Quits (K6RNQ) our personal nomination for number one perseverence operagor on six in the whole country!! Bob's time on the air (Ie. Monitoring, tuning, checking MUF, filling out PRP sheets, keeping skeds with knuckleheads like me, etc.) averages about 10 hours

each day which probably accounts for his amazing country DX total from the flats of downtown Oakland, a location that boasts ear bruising ignition noise and a range of "hills" to the east which limits his useful DX angle in that direction to 10-12 degrees for a good portion of the horizon. Against such odds, Bob has worked 42 states, 15 countries, and 5½ continents. (½ continent...exchange of calls and various gobble de gook with one PAL??) Other accomplishments; P6MN, ZL 50 meg WAS (First and only W to make the grade with this award to our knowledge.) First ZL-W of this cycle, first KX6-W 50 meg, ad infinum.



Caught snooping around the K6RNQ shack were Clem, K6GOX (Fresno), Dick, K6KYU (Visalia), and someone we don't quite recognize on the right.

DX DATE LINE

March 15.
ZL1UZ, WW, MO, MQ, ADP, GX, BJ, 2DS, ABX, MS, AJI (50.800), all worked by west coast W6, 7, K6, 7. ZL1WW reports working ZL4-GY on Es at this time. ZL1UZ wked XE1GM. Strong E skip over entire western half of country. VK4NG hrd WØCNM, 2000-2045, but couldn't raise Bob. 2045-2130, VK4 stations wked by K6TRR, PXT, MMT, ERG, W6RLB, BAZ, AJF. W7MAH worked HC1JW, 1800 PST. ZL1DE hrd HC1??

March 16.
ZL2DS wked W6TMI, 1345 PST.

March 17.
1500-1510. ZL1WW wked K6RNQ. 2000-2215, strong Es from northern, central W6, K6 to Western Texas, Arizona.

March 18.
1340-1405, marginal ZL1 opening to northern W6.

March 19.
1300-1335, ZL1DE, BJ, WW, ADP, 2DS wked by W, K6. ZL3AXH wked by K6RNQ. ZL1DE reports working KX6AF, who was runn-20 watts CW to a 20 meter beam. ZL1-BJ hrd W5VY.

March 20.
ZL1BJ hrd VP7AM, ZL's in and out to K, W6, 1240-1700. W6BJI, BAZ, K6RNQ, EDX wked VK4XJ, K6ERG wked VK4NG. 2035 PST W6SUE hrd CE2AX.

March 21.
No DX reported.

March 22.
W6BJI hrd LU9MA working W5, 7, Ø, 1150 PST.

March 23.
W6FZA hrd W7MAH on Pacific BS, 1200 PST.

March 24.
Many strong Spanish speaking commercials below band hrd by W6BJI, K6-EDX, 1120-1215. HC1FS hrd at 1125 working W5, Ø.

March 25.
Es session, W7RDY wked several W, K6's including K6LEY, W6FZA. 0700-0815 PST.

March 26.
K6EDX wked ZL3AR, 1WW, VK4XJ (latter on phone, 1745 PST.) ZL2DS hrd KX6AF, ZL1DE hrd CE8AE, K6ERG, K6RNQ hrd F2 (TE?) to SW 2230-2300 PST.

March 27-31.
No DX reported.

April 1.
K6EDX hrd LU7AT, 1015-1022, PST.

April 2.
ZL2DS, 1DE, 1WW wked into W, K6 1245-1400 PST. ZL2DS reports working W7RUX VK9BW, K6GOX, ZL1DE, 3QK. (Last two on BS.)

April 3-13.
No DX reported.

NEWS NOTES FROM DX

The ZL 50 meg men are experiencing their first instances of Backscatter, and are apparently getting a bang out of it. They often begin working each other on BS an hour or more before the band opens to W, their first DX of the day. This would indicate that our end.. the northern hop..is holding things up.

VK9BW (variously reported 50.330-350) is very active, looking fir W's. VKØKT is the CORRECT call of the station operating from Macquerie Isle on six. He runs a code wheel, 1900-1930, 2200-2230, PST, 50.190.

VS2DQ is also very active, hearing much but working little. The reason... he operates on 51.800...anyone have a spare xtal?

VP5AK has received a converter for six to fit with his NC-300, and is a good bet for summer E sessions. He and VP5RS tally as separate countries.

K6ERG and K6RNQ plan a summer jaunt to XE2 land, and will hail along Rick's 250 watter. Here's hoping they make it. I for one need a Mexican QSO.

ZL4GY is the only ZL4 active, and is a must for ZL 50 meg WAS. Bob, K6RNQ, received a very detailed map of ZL

land from ZL2AHX depicting the exact QTH of every active 50 meg ZL station.

ZK2BS is definitely on, says ZL1WW, operating on 50.080. Anyone worked this one?

Don't overlook widespread, large E skip sessions on six this summer. With a hop or two into the Pacific, we just might have some F2 into VK, ZL, ZK or what ever is out there. General concensus now is that the VK work from the Bay area 2045-2130, March 15, was E skip for at least one hop on our end. Note also that ZL1 was working ZL4 on Es during our E skip session.

Meanwhile...BACK AT THE RANCH

Bill, K6GTG, is ready to push his 88 element 432 array to the top of the tower. The rig runs a legal limit (You'll never get anywheres that way Bill..Hi..), but receiving gear is holding up the show.

Filter King and Paul (W6BAZ) are expanding to 220 with a 6AJ4 front end converter and low power driver rig as a companion piece.

We should hear more SB signals on six this summer. K6UZK, Paul, Berkeley) has a rig working on the bench and puts out a good signal, while K6BGJ, Bob, Fresno, has a beautiful table top kilowatt running a pair of 4X250B's which will be seen at the convention. Bob, RiNQue, should have his kilowatt DSB going before you read this.

The 2-4-6 net in So. Calif. is activating a 220 branch with 70 stations signed up for roll call.

An old timer on two and 432, Hoppy, W6BUT, Taft, is finally filling the gap between 2 and 432 with a high power 220 rig. We'll expect big things from the baron of oil basin this summer.

CONTRIBUTIONS

Nope, I don't need any money (not allowed to solicit anyhow), just a few simple things like a page or two from you each month with a rundown of VHF-UHF doings in your backyard. Be kind to your column editor month is now upon us. Save yourself from a fate worse then death...I may drop in with my camera for a few candid shots, unless you save me the trouble by sending along a few for the files. And when I drop in...

FRESNO PACIFIC DIVISION CONVENTION

Here's your chance to get even with me...drop by and harass me for several hours over the weekend of June 6-8. Or better yet, go to the convention and help make the VHF meetings the largest ever held on the west coast. A talk by Propagation expert Peterson, from Stanford is scheduled, highlighting a panel discussion on this subject, and lots of hot scoop type material not yet released. And...talks, demonstrations, and the like by Paul Boberg, W6BAZ on construction techniques, by Bill Locy, K6GTG, on phasing large arrays, by Bob Fisher, K6BGJ, concerning 6 meter SB, and many others not yet firm, but just as entertaining. And more...special VHF prizes for the VHF meeting. This is going to be a real affair...see you there!

LAST MINUTE NEWS

After a slow start, April Six Meter DX picked up markedly. ZL 50 meg stations began to work stations in the Carribbean area with amazing frequency, LU-W6 openings have become more frequent and such unusual prefixes as ZK, VK2, and VKØ are beginning to show up in 50 meg logs.

April 15.

K6UZK, PXT, RNQ wked CE2AX, hrd CE1AH, PY7??, LU9MA. W6BJI wked LU7DAH, K6EDX wked LU2FCD, all from 1050-1150 PST.

April 16.

XE1GE wked ZL1BJ, DE, 2DS, 3AQ. K6RNQ hrd VK4XJ, ZL4GY, wked ZL1DE, ADP, AHQ, BJ, 2AXH, DS. W6BJI, K6KYU, EDX note VE7CN AFB, W7CIO on Es around noon PST. W7-MAH wked VE7CN. K6EDX hrd VKØKT.

April 17.

LU7DAH wked K6PAE, K6EDX; K6RNQ hrd LU7DAH, 1ABF. (1050-1120 PST) KP4ACH wked ZL1DE for first ZL-KP4 50 meg. ZL2DS wked W7DYD. LU9MA hrd ZL2DS, 1230-1300 PST. ZL1, 2, 3 strong over central, southern California, 1315-1430 PST ZL2DS wked K5HYF San Antonio, Texas.

April 18.

ZL-W6, 1200-1545. W6BJI wked ZL4GY for ZL WAD 50 meg, K6EDX wked ZL4KU for ZL WAD, 50 meg. K6RNQ wked W6PUZ' on BS, 1210 PST. MUF above 50.5 to ZL at 1230, ZL4KU S9 at 50.500 for 15 min. 1230, ZL4KU S9 at 50.500 for 15 min. K6RNQ hrd VK2BZF, 50.010, 1530 PST.

April 19.

ZL1, 2 hrd & wked at 1130 PST, lasting until 1545 PST. ZL1DE wked VK9BW; ZL3AR wked ZK2BS.

April 20.

No DX reported.

April 21.

LU9MA wked W6SUE, FZA, K6JJU, EDX. K6RNQ hrd HC1JW, LU9MA. (1120-1150 PST)

April 22-24.

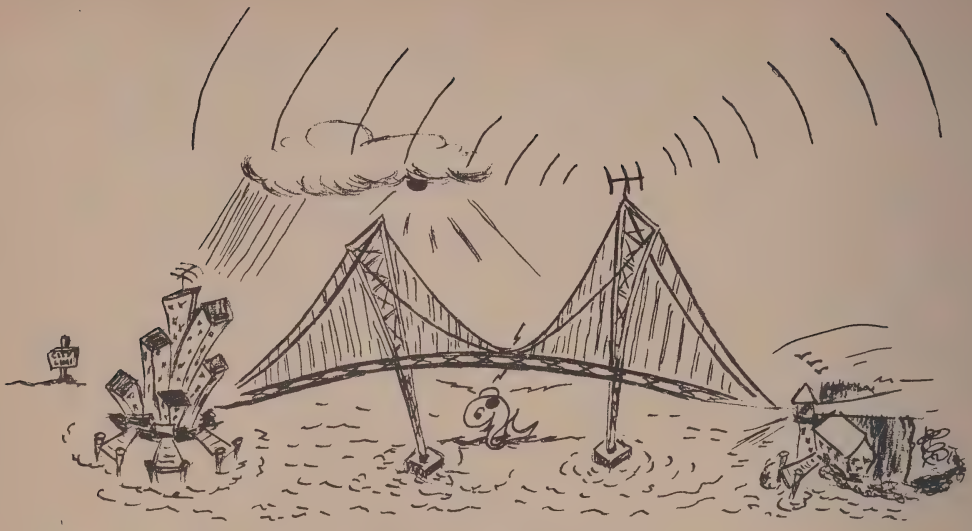
No DX noted to mailing time.

WHEREAS

K6RNQ sends along news clipping describing Russian H bomb tests at an altitude of 60 MILES during March. Anyone have exact dates on file of such Russian tests?

ZL2DS has wked AJD, JA, 50 meg style. "Who was on 49.995 with chirpy CW sig-

Cont. on page 27



Around The Bay

Chick Adelmann K6EYB
9 Ocho Rios Place
Danville, Calif.

Apparently Western Radio Amateur is beginning to get around up here, because I am beginning to receive some of the Club papers and meeting announcements. Papers include: "Standing Wave News" of the SCARS in Redwood City, courtesy of Landry, K6MPN; "The Carrier" of the Mt. Diablo Amateur Radio Club, courtesy Lee, K6DQL; and "The Chewed Rag" of the Hayward Club.

You should have seen the gang at Mr. B's in San Lorenzo at the Mobile Breakfast, March 16th, with K6SKU conducting field strength trials. There were so many in attendance that I am afraid Mr. B's was slightly overtaxed to feed the gang.

Art Anderson, K6TNW, Pres. of H.R.C. with list of mobile ratings field strength.

More of the mobile gang in front of Mr. "B's" Restaurant.

Our new antenna expert (erection, that is) in the San Lorenzo area is Marty, W6QAX, who has just erected his third vertical. The second came to a sad end by breaking in the middle and descending on his roof, putting a hole in it and breaking a window. Question - anybody need advice?

From "The Carrier" we note with regret the passing of Mr. Ray Cornell, W6JZ, on February 23. Ray is well known to all Pacific area Hams and was at one time Pacific Division Director of ARRL.

Congratulations to Bob, K6QXY, and Brad, K6JPR, who successfully ran 25 watts to a 6J6 on 430mc, and believe it or not, ran the 6J6 upside-down in a can of water! It was modulated by a Heathkit 8-watt audio amplifier. Best DX so far is 50 feet.

Cont. on page 24

Pacific Division Convention 1958

For many years, the Fresno Amateur Radio Club has sponsored a Ham Fest each May. The city of Fresno is well known from Eureka to San Diego as the number one convention city of Calif., as it is centrally located from both ends of the states population centers. Always fine weather in the heart of California's San Joaquin Valley, excellent hotel accomodations and an on the BALL CLUB never allows Ham Fest participants to miss a big time.

This June 7-8, the Fresno Amateur Radio Club (FARC) is the sponsoring group for the Pacific division convention. Another fine program is promised, Jimmie Wakefield, W6PSQ, program coordinator, with highlights of DX, VHF, RTTY, SSB, Traffic, YLRL, Antenna, etc. meetings planned.

Several speakers have been lined up at this early date, and many others are sure bets before convention time. Some of these will be Andy Andrews, WØLTE, owner of Hy Gain Antenna Products, who will speak on "Application of Resonant Trap circuits in Multi Band Antenna Systems". Ace Collins, W6QVS, Whittier, California, and consulting engineer for WRL, will tell us all about WRL's new DSB transmitter. Harry Engwricht, W6HC, ARRL Pacific Division Director, will conduct an open forum. (Your chance to get back at the powers which be.) John Reinartz, K6BJ, has promised to give us the poop on "Antenna Measurements"! George Hart, W1NJM, ARRL Traffic Manager, will hold a traffic session with the help of the Northern California Traffic Association, Paul Boberg, W6BAZ, Filter King, Inc., of Santa Rosa, California has been cornered and assures us that he will devulge the secret behind his VHF converters. (Plus some inside hints on how to work Six Meter WAC!) Mr. A.M. Peterson, of the Radio Propagation Lab, Stanford, California, is scheduled to delight the VHF crew with slides, tapes, movies and much talk on what startling facts the IGY has uncovered in terms of Radio Propagation. William J. Locy, K6GTG, Arlington, California has 88 elements on 220 megacycles, and indicates he will cover the facts on how he made it work. And, there may be such other outstanding events as a special Navy show, complete with movies just out of Antarctica (with the slant on KC4 radio, of course.); 2, 6, 10 and 75 meter hidden transmitter hunts; RTTY, Traffic and VHF displays, which will be open during the entire affair; Wouff Hong session; Sunday morning group breakfasts; and of course, one HUGE dinner banquet session Saturday evening.

All of this..and..Prizes, Prizes, Prizes. More prizes than you have seen gathered on ONE stage...we betcha. Fer instance...a brand spanking new WRL DSB Transmitter (one of the VERY first off the production line) which will go as Pre-Reg prize. A Lakeshore Phasemaster Two A, as main drawing prize, and Prizes galore from Hy Gain, Hallicrafters, National, and many more to numerous to name for fear of this becoming an advertisement.

Now, how do YOU beat us into submission, forcing us to sell you a ticket? Well, actually, we don't have anything to do with this deal...except that Western Radio Amateur will be well represented by ye Editor, Art, W6IQJ, VHF Editor, Bob, K6EDX, and possibly others.

But, YOU can get a ticket in advance by rushing $7.75 to FARC, Box 783, Fresno, California, prior to midnight June 2. This will entitle you to a chance at the WRL DSB unit, which is worth the extra effort. Or, if you insist on begruding the FARC of their $7.75 until you arrive in town, registration begins at 0900AM PDST, at the memorial auditorium. Fresno and O Streets. (Just follow the whips.) The Hotel California, Fresno, is offical convention hotel, so see you there. Take off for your Yosemite vacation a few days early, and enjoy the Fresno Pacific Division Convention too.

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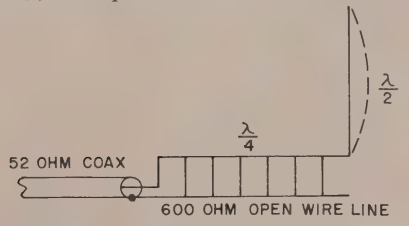
THE NEXT THING TO A BEAM AND HOW TO ADJUST IT

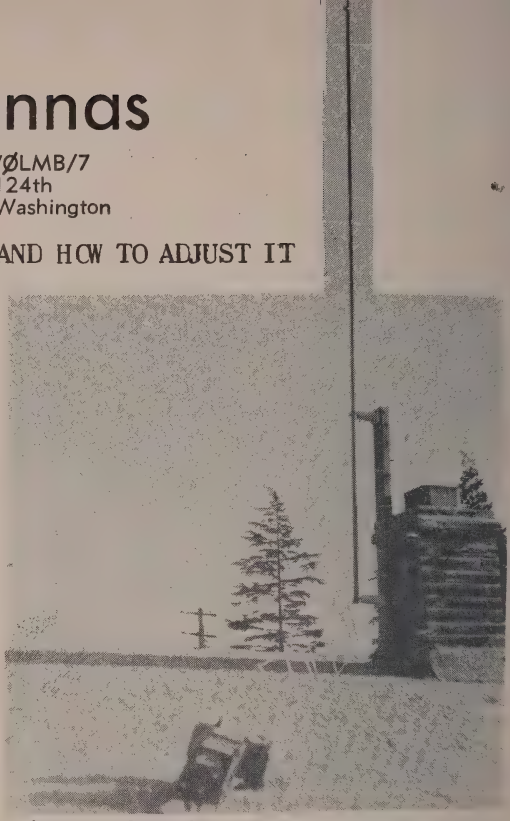
When we moved into our new house I wanted to put up an antenna that took a minimum of time to construct and gave a maximum of performance. This would have to do until I got my tower up again. After much consideration I decided on a vertical, but there are three kinds: 1/4, 1/2 and 5/8 wave. The 1/4 wave requires radials and the 5/8 wave requires a matching section. The half wave vertical is the most simple to match if you use a quarter wave stub and it doesn't require any radials. The coil and condenser-voltage feed method works fine but is cumbersome and a waste of time compared to the stub method.

The 5/8 wave has the lowest angle of radiation, the half wave is a little higher and the quarter wave is higher yet (around 30°) so the half wave is a good compromise. The impedance at the ends of a half wave vertical is around 600 ohms (plus or minus) depending on the element diameter. This impedance is easily matched to 52 ohm coax with a 600 ohm quarter wave stub like this:



Actually all this is, is an end fed zepp tipped over. The stub length is calculated from stub= $\frac{492}{Freq}$ A 600 ohm stub is close enough and is made with #12 wire spaced 6" with poly rods which cost about 6¢ a foot. The stub can be made with other sizes of wire just as well. Consult the tables in the handbook under Transmission Line Theory. The length of the vertical radiator is normally calculated from $\frac{468}{Freq}$ however I have found that due to the fact the antenna will be normally close to the ground $\frac{460}{Freq}$ will give you better results.

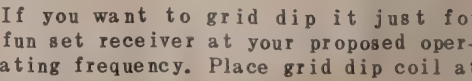
The vertical portion is easy to mount as shown by the picture. All I did was wire a 2"(x 4" to the chimney, mount a couple large stand offs and attached the element, (15 minutes time). The



picture also shows my antenna scope and grid dip (out of focus) connected to the feedline measuring the impedance. With the 600 ohm line the antenna scope read 60 ohms. Substituting into the formula Z stub= $Z_1 Z_2$, $600=\sqrt{60}$ x where x equals the impedance of the vertical. Squaring both sides we have 360,000 60x. Therefore x $\frac{360,000}{60}$ x 6000 ohms. In this case I could have made another stub calculated from the Z_1 and Z_2 values which are $Z_1 = 52$ and $Z_2 = 6000$. Z stub $=\sqrt{52 \cdot 6000}$, $Z_s = \sqrt{312000}$ Z_s 559 ohms. With this impedance feedline I will get the best match.

My 15 meter vertical matched a 450 ohm stub perfectly. You can buy 450 ohm open wire line most anywhere for a couple cents a foot.

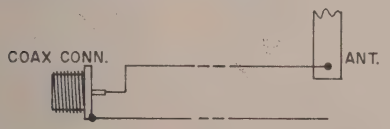
The stub is measured in this manner.



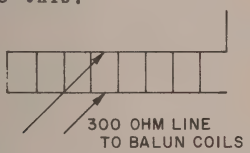
If you want to grid dip it just for fun set receiver at your proposed operating frequency. Place grid dip coil at shorted end fairly close at first and tune grid dip across the band. The dip will be sharp so don't go to fast. Once the dip has been observed move grid dip away from shorted end little by little listening fo the grid dip signal in

the receiver. If you hear the signal and see the dip at the same time as you tune grid dip across the band, your on the money. Don't rely on the calibration of the grid dip. The stub must be suspended from surrounding objects. Take some string and suspend it in the middle of the room. Chances are you will find the "dip" frequency the same as the frequency it was cut for.

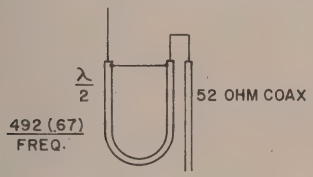
Now solder a coax connector at the shorted end like this and your ready to attach the stub to the antenna.



Another way to feed is to leave the stub shorted and tap off with 300 ohm line like this.



Or with a 208 ohm balun from coax.



The easiest way to find the points for the 300 ohm line is to get some local to listen to you as you shift the "clips" up and down for maximum signal. The antenna can be grid dipped in place at the shorted end of the stub. Adjust antenna length for resonance in the middle of the band or wherever you want it. A Jones Micro match is very handy or the Heathkit equipment. A 40 ft. 3" irrigation pipe only costs about $18. The only thing to use on 20 (cut to length of course). It may have to be shortened a little from the formula length.

RESULTS! They have exceeded my expectations and several others here in Seattle say the same. With 140 watts on 10 I worked anything I could hear, receiving a couple S9s in Europe and S. America Iran phone patches to the HH6's. Since this one on the house worked so well I figured one about 40 ft higher should work better (it did). I used a coax switch and compared them. The higher one was steadier and a bit stronger. This one was made of all wire hung from the end insulator of my 75 meter dipole (3 ft below). I then compared it to my workshop beam and found it only about 4 to 6 db down on the average.

W7VCB has had equal if not better results with his vertical and 60 watts. He just put one up on 20. The antenna will cover the whole band as the stub tends to broaden it due to it's characteristics with changing frequency. W7YGN has snagged several out of the pile-ups on 20 with 140 watts.

It's the closest thing to a beam I have found yet. This is a field day antenna if I ever saw one.

W7DND has one of these with a DIRECTOR. He consistantly had one of the outstanding 20 meter signals I heard back in the middle west. I plan to try one of these myself and will let you know my results.

Give it a try if your short on space. It's neat, simple and easy to put up. You will have a lot of fun with it I guarantee. Let me know how you make out.

ooooOOOoooo

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By
Ed Marriner W6BLZ
528 Colima LaJolla, Calif.

San Diego Zero Beat

Been sitting here looking at the typewriter surrounded by all the radio equipment and trying to figure out how to cut down the size of the column for the boss. The wife tried to squeeze by the desk enroute to the bedroom. As she passed she remarked that everything seemed to be operated by switches and it was too bad the same principle couldn't be applied to the kids hollering in the front room.

W6CDF has a new all band vertical. W6QJH tells me he has forsaken the lowlands and has now moved up to Suncrest, east of El Cajon, a terrific DX location. Another note here from W6BOY who sailed his small 40 foot boat over to Hawaii all by himself. Sez that he is going to stay over there and work for the Fish and Wild Life Service. Al put many years in as radio operator for the Scripps Institute of Oceanography Fleet.

The other night I was tuning across 20 cw and was surprised to hear a station calling CQ S P A C E.

Had a nice visit from an old timer, W1QS. Ed has been on the air continuously for 46 years, mostly on 80 cw. He also has a 150 year old summer home on Nantucket Island. The home adjoins the spot where the original Marconi station was located. Many of the local residents still remember when Sarnoff was 17 years old and left the Island in 1908 to make his fortune in the "Big City" (he is now President of RCA), but that is too far back for W1QS to remember. Hope you liked California Ed!

W6QME, the DX man, has resigned as president of the Helix Club due to new Navy orders. W6FFD has taken over the job as new president. Likewise, W6EWU is the new president of the North Shores Club. The SD DX club made 600,000 points the first week of the cw test and are trying hard to beat the Northern California gang.

K6IPV Don Lisle said that I never mention him. Well I have an excuse now, W6ATZ said to see Don for Helix Club news, so the finger is on you Don! K6-BHM has left the SD area for CG duty in Conn. and skeds locals to work tfc into his parents. W6YLI, brother of W6TIY, is getting on the air soon.

All you contest schemers better look out, an old time DX winner is back on the air. W6RCD just bought an HT-32 and a Thunderbolt. Winn has the worlds best DX location of Pt. Loma and if my predictions come true, will be top contest dog. I heard him calling FS7RT on 7002kc at 3 AM and he works daytimes just to give you an idea. K6AVF just put Spring Valley on the SB map with a Pacemaker. K6UNU bought a new house, a new rig and a new wife. You know how these XYL's are, they try to reform their husbands by making them cut out cigarettes, then liquor, then ham radio and there is nothing left but paper dolls. K6IWU was winner of the National Merit Competition. K6IIR now heads the sound crew at the Pt. Loma High assisted by K6CUZ. W6ZIC just got on the air with a 20A and a WRL Linear Amplifier. All for nw...73's. Ed W6BLZ.

Club Meetings

AEROJET RADIO CLUB, K6CLZ meets 2nd Mon. West Covina Civil Defense Hdq. Contact K6DQE, Dean Tyler at EDgewood 4-6211 for details.

AMATEUR RADIO CARAVAN CLUB OF NEW MEXICO. Albuquerque. All mobile club, meets ea. Wed. 7:30 p.m. MST on the air 29.6mcs, followed by activity at 8:00 p.m. 29.6mcs monitored; visiting hams urged to check in and participate.

ASSOCIATED RADIO AMATEURS of Long Beach meet first Friday ea. month. Signal Hill City Hall. Hill and Cherry.

BAY CITIES AMATEUR RADIO CLUB: meets every Wed. eve. 7:30, room 55 Santa Monica High School, 6th and Pico Santa Monica.

CATHAY RADIO CLUB: meets 2nd Fri. each month Cathay American Legion Hall 8:30 p.m. 1524 Powel St., San Francisco.

CITRUS BELT AMATEUR RADIO CLUB meets every month 1st Fri. 8. M. IOOF Hall in Colton. Rod Davis, Pres.

COACHELLA VALLEY AMATEUR RADIO CLUB meets 3rd Wednesday ea. month at 45680 Deglet Noor St., Indio, Calif.

CORONADO RADIO CLUB: meets 2nd & 4th Fri. at the Red Cross Bldg.

CRESCENTA VALLEY RADIO CLUB meets 2nd Tues. ea. month at La Canada Elementary school at 8 P.M.

DOUGLAS EL SEGUNDO RADIO CLUB meets 2nd Wed. ea. month Richard Henry Dana Junior H. S., 135th & Aviation Blvd., Hawthorne, Calif. 7:30.

DOWNEY AMATEUR RADIO CLUB meets 2nd & 4th Tues 8 P.M. at the new Imperial School. Imperial Highway between Downey Ave. and Paramount Blvd.

EAST BAY RADIO CLUB meets 8 p.m. 2nd Fri. each month at the Cornell School. Albany, Calif. Club call W6CUS.

EAST VALLEY RADIO SOCIETY meets 2nd & 4th Fri. 8:00 p.m., LaPuente City Hall Council Chambers.

EVERGREEN 50 & UP SOCIETY meets Fri. eves. 847 E., 94th St. Seattle, Wash. contact Bill McCafferty W7UZB for information.

FAR WEST RADIO CLUB meets 2nd & 4th Thurs. Veterans Memorial Bldg. Fortuna, Calif.

FRESNO AMATEUR RADIO CLUB meets 2nd Fri. each month at the Pacific Gas & Electric Co. Building Auditorium.

FULLERTON AMATEUR RADIO CLUB INC. W6ULI meets in American Legion Hall 2nd Wed. of each month.

GLENDALE "ZERO BEATERS" meets the 1st and 3rd Thurs. ea. month Yosemite Park playground, La Roda and Yosemite Drive, Eagle Rock. 8 P.M.

GOLDEN EMPIRE AMATEUR RADIO SOCIETY INC. (GEARS) meets every 3rd Fri. at Region 3 Civil Defense Hdq., 7th & Cedar St., Chico, Calif.

HAYWARD RADIO CLUB meets second and fourth Fridays at Hayward Airport North end of field.

HELIX RADIO CLUB meets 1st Fri. ea. month at Gillespie Field CD Hdq., El Cajon, Calif.

HUGHES AMATEUR RADIO CLUB meets 1st and 3rd Wed. ea. month at Centinella and Jefferson in Culver City, Call Rod EX 7-9011 for information.

INGLEWOOD AMATEUR RADIO CLUB meets 2nd and 4th Friday ea. month at 105 Grevillea, Inglewood.

LEWIS COUNTY AMATEUR RADIO CLUB, (ARRL Affil.) meets 1st and 3rd Monday in County Court House, Chehalis, Washington on US 99, 8 pm. You are welcome W7NTO.

LAGUNA BEACH AMATEUR RADIO CLUB meets 4th Friday ea. month at City Hall, Laguna Beach.

LAKE WASHINGTON AMATEUR RADIO CLUB W73B Bellevue, Wash., meets 1st & 3rd Wed. ea month. For details contact Al Wolfe, W7SOY. Phone SHerwood 6-1116.

LA MIRADA AMATEUR RADIO CLUB meets 1st Mon. ea. month Rancho School, Demanda & San Cristobal 7:30 p.m.

MIKE AND KEY CLUB meets 1st & 3rd Tues. ea. month at the Encanto Community Center 65th & Broadway, San Diego, Calif.

MOBILE RADIO CLUB OF SOUTH GATE: meets 1st & 4th Thurs. ea. month at 10131 Mallison Ave. South Gate 7:00 p.m

MOJAVE DESERT AMATEUR RADIO CLUB meets 2nd and 4th Sundays at 2:00 P.M. Northrop Recreation Bldg., Palmdale.

MT. DIABLO RADIO CLUB meets third Friday, 8 p.m. Contra Costa J. C. in Concord.

MOUNTAIN VIEW AMATEUR RADIO CLUB meets 1st Thurs ea. month at the new Central School Cafetorium, 14741 E. Central Ave., Baldwin Park, 7:30 P.M.

NORTH BAY AMATEUR RADIO ASSN. meets 1st Fri. 8 p.m. Red Cross Bldg. 508 Alabama St., Vallejo, Calif.

NORWALK RADIO CLUB meets 2nd and 4th Wed. at Los Alisos School Auditorium, Maidstone and Excelsior Drive.

OAKLAND RADIO CLUB meets 1st Fri. ea. month 8 p.m., 906 Fallon St., Oakland, Calif.

ORANGE COUNTY RADIO CLUB meets 3rd Wed. ea. month at 12502 Placentia, Santa Ana.

PACIFICO RADIO CLUB K6BAG meets every 2nd Sunday ea. month 9048 W. 18th St., Los Angeles. Contact W6NJU.

PALISADES AMATEUR RADIO CLUB meets 2nd and 4th Tues. ea. month at Rustic Canyon Club House, 601 Latimer Rd., Santa Monica Canyon.

PALO ALTO AMATEUR RADIO ASSOCIATION meets 1st Fri. ea. month at Menlo Park City Hall, Menlo Park, Calif. 8 p.m.

PASADENA RADIO CLUB meets 2nd & 4th Fri. ea. month 8:00 p.m. basement of Altadena Sheriff station 780 E. Altadena Dr., Altadena, Calif.

PORTLAND AMATEUR RADIO CLUB meets 2nd & 4th Fri. 8 p.m. Portland Civil Defense Training Center 3031 S. E. 101st Ave., Portland Ore.

RIO HONDO RADIO CLUB meets 1st Sat. of the month at Palm Park, Whittier.

RIVERSIDE COUNTY AMATEUR RADIO ASSN., INC. meets 2nd Fri. ea. month 8 P.M. Arlanza School, Riverside (near Rohr Aircraft plant)

RAMONA RADIO CLUB meets 2nd Mon. ea. month, Fire House, 605 S. Del Mar, San Gabriel.

RYAN AMATEUR RADIO CLUB meets 1st and 3rd Wed. 7:30 in Balboa Park.

SACRAMENTO AEROJET RADIO CLUB meets 2nd Mon. ea. month at Aerojet Nimbus plant site. Club call W6IJK

SAN BERNARDINO MICROWAVE SOCIETY meets 1st Thurs. ea. month at Chaffey College, Ontario.

SAN DIEGO AMATEUR RADIO CLUB meets 1st Mon. ea. month American Red Cross Bldg., 3650 5th Ave., San Diego.

SAN DIEGO DX CLUB meets 3rd Tues. each month at various homes. Call W6BZE or W6LRU AC 2-2933 for info.

SAN FERNANDO VALLEY RADIO CLUB W6SD meets 1st & 3rd Fri. ea. month at the American Red Cross, 14717 Sherman Way, Van Nuys, Calif. at 7:30 p.m.

SAN FRANCISCO RADIO CLUB meets 4th Wed. ea. month Forrest Hill Lodge, 266 Laguna Handa Blvd.

SAN GABRIEL RADIO CLUB INC. W6QFK meets 1st Tues. ea. month at Bowling Green Club House, Arcadia Park.

SAN GORGONIO PASS AMATEUR RADIO CLUB meets 2nd Monday ea. month 700 Magnolia Ave., Beaumont, Calif.

SANTA BARBARA AMATEUR RADIO CLUB meets 3rd Fri. ea. month 7:30 P.M. Recreation Center. Anacapa and Carrillo Sts., Santa Barbara. P.O. Box 273.

S.C.A.R.S of Redwood City, Calif.: meet the 4th Monday 8: p.m. in Veterans Memorial Bldg. 1455 Madison, Redwood City. All interested in ham radio invited.

SILVERADO SIX SHOOTERS meets last Thurs. of month at Vets Memorial Bldg. Napa, Calif. Net night Tues.

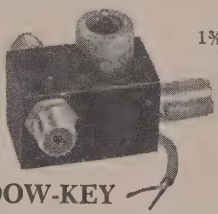
Continued on page 30

WHAT'S NEW?

By
Bill Thompson W6RRI
11159 Washington Blvd., Culver City, Calif.

I have made several checks during the last couple of weeks and one of the things I like best is Hy-Gain 18-AV, all-band, trap vertical. The first evening on the air at my home I worked KC4USW on 20 meters. This was on a Sunday evening, so the antenna must be doing a fair job. I was running one KW of SSB and the report was quite good 5-8-9. It was a bit of a job getting the thing set up but the major problem was that it was a little more than two people can handle. The assembly of the antenna was quite straight-forward and no tuning was required. All we did was follow the different measurements and spacing of the coils properly according to directions. The mounting kit and bracket are most universal and did a very good job. After ten days of using the antenna with a Globe King 500-B and on 75, 40 and 20, the reports are very good. Not like a beam, but for this type of antenna, with its all-band operation, it is much better than I'd thought possible. Received very good reports on the East Coast and Alaska on 75 meters, and all over the states on on 40 meters.

Another new item that looks like some thing we all need is a transistorized CW monitor and code practice oscillator. A completely self-contained gadget that does a FB job. It is housed in a small metal cabinet, the type most often used for a meter case, and is about four inches square, with a slanted front. When using it as a CW monitor it is no problem at all to set it up as it comes with a special probe to pick up a little RF from the tank coil of your rig. The unit, together with the probe, seems to make it quite sensitive, and I had it working in about five minutes. There are several good points about this monitor, and the best part is the price which is only $15.95. less batteries.



SIZE:
1⅜" x 1⅝"
x 2¾"

DOW-KEY

Another new item that is getting very good acceptance is the Dow-Key TR switch, one of the neatest packages I've seen. An electronic switch with the usual tube and circuitry. But the size enables one to use it in almost any space near the final of a rig. I checked it on up to one KW of AM phone and it is still in good condition. So it will handle at least the legal limit. The size of the DKC-TR is 1 3/8" by 1 3/8 by 2 3/4", shipping weight is 8-oz. Power requirements are low and can be obtained from the transmitter accessory socket. B-plus requirements are 125 to 150 volts at 6.2 ma. Filament requirements are 6.3 volts at .4A. The tube used is a 6AH6, included with the unit.

The switch provides a gain of from 0 db at 60 mc, to plus 6 db at 3.5 mc, and matches 52 and 72 ohm line with no insertion loss. Again the DKC-TR has one exceptional feature with a price tag of $12.50. which is less than a lot of the current coax switches.

.....

WELCOME

NEW PAC. N.W. ADVERTISER

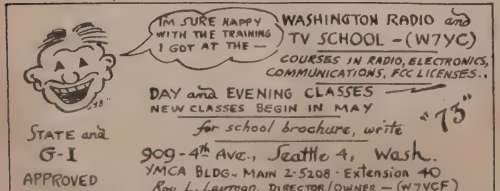
I could start this with "...Listen, my children and you shall hear..." but rather than risk being sued for plagiarism (if ol' Paul R. should rise from his grave!) I'll simply say that a 'long time ago' this reporter was an eager student at the old Marconi Wireless Telegraph Co., of America school, located at the YMCA in Seattle...that was in 1916 and the school had already been in existence a couple of years or so! I was a 'poor' student, as I recall it; my interest was great but my concentration nil! Just the same, they 'hammered it in' so that it was only a few short weeks before I was waiting for the ink to dry on a crisp, crackly commercial 'wireless' operator ticket!

The Seattle "Y" (school has been in CONTINUOUS operation ever since! I venture to say that aside from a few eastern schools, like maybe the old Dodge's Institute of Telegraphy in Valparaiso, Indiana (still going under a new name.), the Seattle 'Y' school is about the oldest, and we all know that it has to be GOOD, legitimate and completely competent and above-board or the 'Y' won't tolerate it. And...so it is, right now, today, under the able ownership of Roy L. Layman, a retired U.S. Coast Guard Communication Officer with 38 years of Radio and ass œiated communication experience behind him! Not only do I know Roy, but I know several of his students; THEY are the guys who 'lay it on the line' for their tuition and they DON'T REGRET IT!

If any of you guys want to be a 'brass-hat' in radio and allied subjects by MAIL, skip it. Roy feels, like I do, that to LEARN a thing, GO where the teaching is...don't ask the mailman to train you. So...no, repeat NO, 'correspondence' course from Roy. Save your shekels, put part of 'em on the barrel-head for the course, and live and eat frugally at the Seattle 'Y' while you get a foundation in radio, TV, general communications et al, that you WON'T find in the books or by mail. Welcome Roy, to the advertising columns of Western Radio Amateur and...thanks for your support! The current name of the school is WASHINGTON RADIO and TV SCHOOL, and you'll find their address in their ad below.

"YB" W7OE

PATRONIZE OUR ADVERTISERS!



AROUND THE BAY

Cont. from page 16

Aero Jet General Nucleonics is forming a club of AGN Hams in San Ramon. They expect to get organized so that they can communicate with AGC in Azusa.

Haven't met her yet, but one of my new neighbors is Jeri, W6QMO, who is manager of NCN 80 CW TFC net (3.365mc). As soon as I can get an antenna up, I'll check in with her.

"The Standing Wave News" contains the very interesting account of a QSO between Al, W6TXA and VE∅MC. VE∅MC being a Canadian maritime mobile and apparently very rare DX, since only three calls have been issued, two being assigned to Canadian Navy vessels and these stations are not too active. The third, VE∅MC is assigned to the Canadian weather ship Stonestown, operating out of Victoria, B.C., about 1,000 miles due west of Vancouver. VE∅MC operates a DX40 Xmtr, an Eddystone Rcvr, and works 10, 15 and 20 meter CW and 10 meter 'phone. It sounds like an interesting contact, Al says 100% QSL.

Have any of you ever heard of a BC-652A? I picked one of these up at a real bargain price about a month ago, fired it up, and much to my surprise found it was a very excellent 80 meter receiver. It contains a 20KC and 100KC crystal calibrator, and actually receives SSB better than my 75A2, it being a little bit easier to tune and stable too. These units are rare. I have never seen one advertised, but I heartily recommend it to anyone needing a good 80 meter receiver. It is so constructed that modifications can be easily added.

Well, K6EYB finally got back on the air and operated a full four nights. At this time the station had to be dismantled and moved to Danville, so it's off the air again until I get settled and can erect an antenna.

W7 NEWS

Cont. from page 11

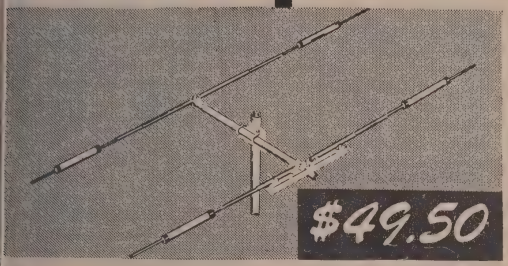
JCR, Treasurer and W7ZFO, refreshment manager, take their jobs seriously! Prompt action was necessary too, for their slaving secretary was expiring from sun-stroke in the briar patch! Well, anyway, the shack and grounds look pretty good now!" (On a hot day, in a black-berry patch...YOU guess if you can, WHAT comprised the "refreshment"! - YB).

And that kiddies and grey-beards, and you too Cutie and Maw, ends my tale of 'whoa' for this month...Make it do!

'Hey Hams! "Trap-Master JUNIOR'S" here"!

NEW Model TA-32 "JR."

Designed specifically for low and medium power transmitters... 300 watts or less!



$49.50

Also: Model TA-33 "Jr." (3 el.) $69.50

3 Bands, 10-15-20
Gain 5.5db, F–B 20db, SWR 1.5/1
Max. element length 24 ft.
Aluminum construction
Boom 6 ft.

For complete information, write for Catalog H-58.

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All items listed below were removed from new unused surplus equipment and are guaranteed.

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TRANSISTORS 2 FOR $1.50
8mc 2N167 NPN; Silicon 2N163 NPN; 2N43A PNP; 8mc rf 2N123PNP

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TEFLON 300 DEGREE C. INSULATED WIRE
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	AC Input Volts RMS	DC Output Volts to Filter	Max. DC Load Current Amps.
Single-Phase Full Wave (2 Tubes)	3535*	3180	.5
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Three-Phase Double Y-Parallel (6 Tubes)	4080‡	4780	1.5
Three-Phase Full Wave (6 Tubes)	4080‡	9570	.75

*per tube †total ‡per leg

Other ham favorites by **Amperex:**

ECC81/12AT7	Low-noise, medium-μ twin triode
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MOSLEY "Trap-Vertical"!

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- Low SWR all bands—1.5/1 or better!
- Weather-proof traps!
- Mount on ground or roof-top!

Model V-4-6
only $27.95
AVAILABLE NOW!!!
80 M. Base Loading Coil.
Model D-4BC $14.95

Requires no tuning! Mounts in limited space. All aluminum construction. Use 52 ohm feed line. Complete with guy rope hardware and instructions.

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C410 Miniature Transformer 500 ohm to 15 ohm good for transistor circuits	.10
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Hook up Wire	per foot .01
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3x.1 600v bathtub	.35
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also many many other sizes in stock	
8mfd 600v oil	1.00
8x8x8 500c CBV-481337-20	1.95
10mfd 1000v Cornell Dubilier	2.95
.001 5000v mica	.20
.5 - .125 400v	.10
Micas 50mmf to 400mmf	5c ea. 3 for .10

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Connects to mike jack, 3-8 ohm speaker terminals and land line. Capacitor in line With in-out switch. Ship wt. 1 lb.
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GR 8-4241 or BR 2-5687

VHF Record

Cont. from page 15

nal (F2) on April 18 ZL session", asks K6RNQ? ZL's had their first night time TE opening to JA on the 15th. our time, with S9 plus signals still rolling in as they retired for the evening.

Attention Bay Area 220 meg men, and prospective stations: Following are active on the band. W6SUE, BAZ, AJF, NZV, K6RNQ, TRR, UZK, JTC, QAX, W6LSC.

W6QJB Orangevale is still working into the Bay area on 432 megs at whim, distances of 70-120 miles are covered on a regular basis.

Bill, K6GTG, was having problems with hi power 220 final as late as the 23rd of April and may not be on as scheduled for MS tests. Drop him a card to be sure, before listening. He says he is working on a new final modification to run a pair of 4CX250's.

W6RZY, Mat-Oxnard, tells of 220 project for his area, with rigs being designed by W6SDM. He promises to be squirting out hi power 220 RF with a 30 element array by mid July.

KH6CCZ reports DX poor during the last few weeks in Hawaii, with VK4 only DX hrd and wked. Bill expects LU TE path to open soon, however.

New VK9 freqs, and calls: VK9BW, now on 50.085, VK9XK, VFO first 100 kc., VK9NK, getting on the band.

W6PUZ has skeds with ZK2BS, W6AM wked 3 VK's, 1 ZL, hrd two KH6's during ARRL March CW contest. A sked with KP6AL failed. Rhombic's sure are nice.

Ken, W6NDP (Op at KX6AF) is expected back stateside for a visit soon. Now to settle down with some nice predictable Sporadic E!

SAN FERNANDO VALLEY RC HAMFEST PICNIC

The Second Annual Hamfest Picnic sponsored by the San Fernando Valley RC Inc. will be held June 8, 1958 at the Victory-Van Owen Park, across the wash from the Naval Armory. This is the same location as used last year. There will be 2-6 and 10 meter rigs to guide you in. There will be free coffee, soft drinks, ice cream and candy for the youngsters and oldsters, plus games with prizes for both.

Registration begins at 10:30 A.M. Advance registrations $1.50. Registrations at the gate $1.75. For further ticket information contact Vic Levine, K6OKT at 6455 Ben Ave, North Hollywood, PO 1-9739 or Bill Gray, K6YMK at 14630 Plummer St, Van Nuys, EM 2-1913.

There will be plenty of activities for the whole family. Bring a basket lunch. Bring your surplus gear for the swap shop.

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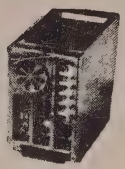
RADIO ELECTRONIC SURPLUS



BC683 FM RECEIVER
27-39 mc. Equipped with 10 push buttons for selecting channels. Cont. variable tuning over the entire range. Unit complete with tubes, built-in loud speaker, squelch circuit, head phone jacks, schematic diagram on bottom of case. Approx. weight 34 lbs.
Used, good.....$12.50 each
12- or 24-volt D.C. Dynamotor .....each $3.95

BC-603 FM RECEIVER
Same description as BC-683 except that range is 20-27mc. This unit complete with tubes, like new Each $6.95
Manual with schematic for BC 603 & BC 604 $1.00 ea.

BC-684 TRANSMITTER
(Used yith BC 683 receiver.) Used good $4.95 each
FT-237 rack for above receivers and transmitters $4.95
Crystals (set of 80) for BC-604 transmitter $4.95

DM-35 DYNAMOTOR
Input 12 volt DC, 18.7 amps. Output 625 volts. 225ma. Used good ..... $9.95 each

BC 659 FM TRANSCEIVER
29 40mc. 2 channels, crystal control. Unit complete with tubes, built in speaker and dual meter for testing filament and plate circuit. Approx. dimensions 16" x 13" x 7½". Like new ..... each $6.95
Manual with schematic for BC 659 ..... each $1.00

COAX CABLE
RG-11/U (75 ohm) 200 ft. roll with connectors $5.95 per roll
RG-11/U (75 ohm) 200 ft. roll with connectors $7.95 per roll
RG-59/U (73 ohm) 100 ft. roll ..... $4.95 per roll

6 VOLT STORAGE BATTERY
Willard NT6 midget 6 volt storage battery rated at 2.4 amp hours, plastic case. Dimension 3½" wide x 1¾" deep 2⅜" high. ..... $2.50 ea. postpaid
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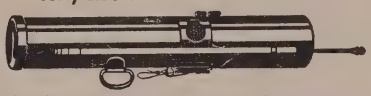
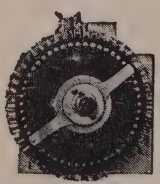
500 KC CRYSTALS
500kc Crystals in FT-241 holder (54th harmonic type) $1.00 each ..... 6 for $5.00 postpaid

AN/CRC-7 VHF TRANSCEIVER



With voice or transmit tone, used with air-sea rescue work. Crystal controlled. 140.58 mc.
$15.00 each (less battery)
See April issue of CQ for conversion data.



44 POSITION STEPPING SWITCH
With automatic reset. 24 volt A.C. Dimensions 4¼" x 4¼" x 3" deep. Mfgd. by Wico.
$3.00 each
Five for $12.50 postpaid

BC1033 BEACON RECEIVER
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DX REPORT

Cont. from page 10

rrive and then he was due to sail from Falmouth on April 22nd. Considerable effort had been expended in getting YASME II insured against total loss. An English firm had been approached and had agreed to insure. On the day before sailing, however, and on receipt of the check covering the premium, the company reneged on its promise and refused to insure. Efforts will be renewed to insure when Danny arrives this side of the Atlantic. Upon arrival in the Virgin Islands KW amplifiers (HT-33) will be installed on the YASME. Negotiations are also proceeding to have Danny (and a couple of W hams) visit Aves Island, YVØ, as his first DX spot. If things work out this should occur about June 1st. In the meantime VP2VB/MM and KV4-AA shed on 14002 daily at 2230 GMT. Listeners on that frequency can keep abreast on YASME info.

73's, KV4AA

****

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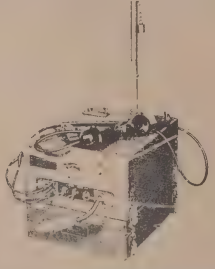
New type F-1 unit. Small, compact, can be mounted in small holder 2" diameter 49c ea.



BC-659 TRANSCEIVER
Famous transciver that is becoming so popular. Now covers 28-39mc or higher.
New Transceiver $6.95
Power Supply $3.95
Hand Set $3.49
13 ft. Antenna $2.95

SPECIAL SPECIAL
AC Power Supply for BC-603 or BC-683. Just plug in the back of receiver without making changes in receiver. Power supply also makes it possible to use squelch circuit in receiver Only $9.95

BC-603 RECEIVER
10 channel push button or continous tuning. Includes speaker, tubes, squelch.
20-27mc. Like new $5.75

BC-683 RECEIVER
Same as BC-603 but tunes 28-39mc AM or FM. Only $12.95

DYNAMOTORS
DM-34 12 volt dynamotor for BC-683 or BC-603 only $1.95
DM-36 24 volt dynamotor for BC-683 or BC-603 only ..... $ .79

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- *Want a mobile antenna that never requires adjustment?*

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Covers 10, 15 or 20 meters. Stainless steel whip sections, weatherproof traps, polished aluminum trap cover and...coils that never change inductance. "Trap-Mobile" by MOSLEY—your best buy!

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CLUB MEETINGS

Continued

SOUTH EAST AMATEUR RADIO CLUB meets 3rd Fri. ea. month 8 P.M. at South Gate Civil Defense Bldg., corner Post and Victoria.

SO. CALIF. DX CLUB meets 1st Thurs. each month, Cliftons Cafeteria. 8th & Spring Sts. Los Angeles, 8 p.m. 2nd floor.

SOUTHERN NEVADA AMATEUR RADIO CLUB meets 8 p.m. 2nd & 4th Fri. each month at auditorium, Victory Village, Henderson Nevada.

TRI COUNTY AMATEUR ASSOC. meets 2nd Wed. ea. month at Westmont Community Center, Pomona.

TWO METER & DOWN RADIO CLUB meets 1st Wed. ea. month at Plummer Park, Long Hall, 7377 Santa Monica Blvd., Los Angeles..

UNITED RADIO AMATEUR RADIO CLUB meets 3rd Fri. ea. month at Wilmington Hall, 435 N. Neptune, Wilmington.

VALLEY RADIO CLUB meets 1st & 4th Fri. ea. month in the Community Center Puyallup, Washington.

VISTA AMATEUR RADIO CLUB W6VPU meets first Wed. of each month. Contact K6LKQ PAlace 4-2325 for information and location.

WEST VALLEY RADIO CLUB meets at Whitsett Hall, 14955 Saticoy St., Van Nuys, Calif. 1st and 3rd Fri. at 1930.

WESTCHESTER AMATEUR RADIO ASSN. K6EBN meets 1st and 3rd Mon. ea. month at 8301 Dunbarton Ave. Code classes every Mon. 7 P.M. Contact W6MTQ for details ORchard 7-1012.

WHITTIER 50 RADIO CLUB meets 2nd Fri. ea. month dinner 6:30 p.m. at Oak Room, Hoover Hotel; meeting at City Hall, Civ. Def. room, at 8:30 p.m.

Y. L. R. L. meets 2nd Sat. each month 12:30 Schabers Cafeteria, 720 S. Hill St., L.A. No meetings in July or August.

ZERO BEATERS RADIO CLUB meets 1st and 3rd Thurs. at 8 P.M. Yosemite Playground at Eagle Rock.

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DU-1 Direction Loop converted to marine band. beacon band, and lower half of broadcast band. Brand new guaranteed 34.50

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LU-3 Sig. gen. & freq. meter 460-487mcs. With all accessories and tech manual. Brand new 19.95

Lavoie Freq. meter, new w/accessories & manual. 375-725 mc. 27.95

TS-173 Freq. meter 90-450mc. w/calib. book xlnt cond. 99.50

TS-34/AP Synchroscope, w/case, cables, xlnt cond. 34.50

TS-34A/AP Synchroscope, excellent condition 74.50

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Bendix TA-12 Transmitter, 100 watts phone-cw 2-8mc. VFO excellent condition 24.95

Modualtor for above, with dynamotor, xlnt cond. 12.95

Q5er 190-550kc Command Rcvr, good condition 9.95

ARC-5 Xmtr. 5.3-7mc, good cond. 3.95

BC-223 Xmtr, phone & cw 24.95

TBY Transceivers 27-80mc 7.50 to 14.95

Squirrell cage Blowers, small compact will work on 12 to 115vac or dc 3.95

SCR-522 Test Set 100-156mc sig gen., test meter, field strength meter, battery box, tech manual, all accessories. brand new 37.50

RS-38 Carbon Mikes w/push to talk, brand new boxed 4.95

T-17 Mikes, new boxed 8.50

BC-659 FM Transceiver 27-38mc .. 4.95

FREE pocket multi-tester with any purchase of 39.95 or more.

All types of Radio & TV tubes, including picture tubes Bargain priced.

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Distributors for Arrow Sales Inc.

EXPERIMENTS IN STABILITY

Cont. from page 5

There have been some BC221 frequency meters rebuilt to be fairly stable, but in the orginal form they seem to have too much drift.

The Command set transmitters have beautiful precision gears which operate without backlash, and the components are very substantial. The VFO can be brought to peak the signal right on the spot you want it, and it will hold for hours. After the dial is set, there is absoluty no jumping of frequency to another spot. This VFO drifts about 1/10 kc at 7 mc during the first minute of operation, and it drifts another 1/10 kc in 10 minutes, but after that it does not drift more than 1/10 kc for several hours. Some difficulty was experienced in drift with change in room temperature, but this was compensated by the condensers shown. It now holds within 1/10 kc when the room temperature is varied about 50 degrees F. to about 80 degrees F.

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4X150A	13.50
701A	1.95
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Sockets for 4X150A	7.50

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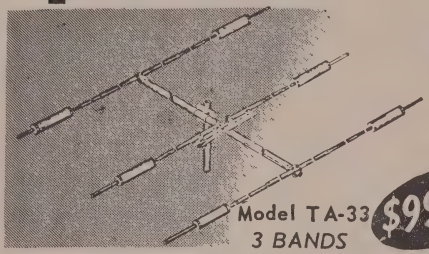

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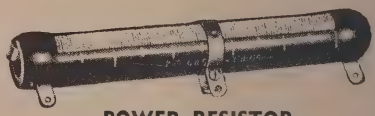

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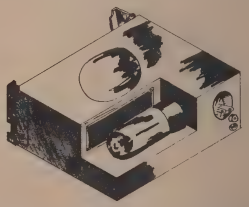

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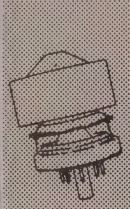

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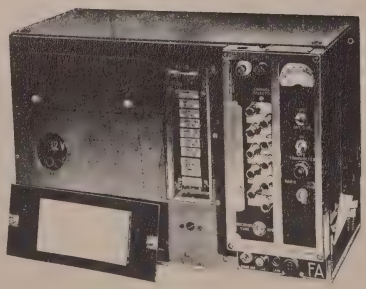

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BC-659 TRANSCEIVER
Two channels, crystal controlled 27-38.9mcs. Complete with all tubes, in nice condition.
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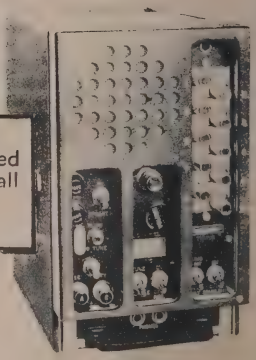

BC-683 Receiver. 27-40 mc. 10 channel or continuous tuning. Good for citizens band, police, fire, etc. and 10 meter ham band. Brand new complete with tubes $14.95
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Hysteresis synchronous motors for high fidelity recording and reproducing equipment. These units are brand sew, not Govt. surplus at prices that cannot be duplicated anywhere else.

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115vac Relay SPDT, Advance 31501 small size 1.44

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S-38D and HT-17 both for $65. Jim W6-CYM, 8802 E. Imperial, Downey. TO 1-3416.

WANT TO TRADE: Complete SCR522 plus original power supply. Unconverted like new, for SSB exciter. Phone Jack, W6LLA OX 6-4171.

FOR SALE: TBS-50-D with VFO & separate 110 volt power supplies. Low pass filter. De-TVI'ed. $125. Also complete 2 meter mobile station including home brew xmtr, Eldico rcvr, six or 12 volt power supplies $75. W6JRK. CHurchill 9-2006.

HEATH KITS NOW IN LOCAL STACK!!! 820 WEST OLYMPIC, LOS ANGELES.

TRADE: Toy poodle, female (champion sired 8 weeks) for 2 meter Gonset Communicator. Will trade for used III, or new II. Pat Krig. Top of Park Dr., Wrightwood, Calif. Phone 32.

SIX METER HAVEN: Kilowatt rig, rough, but in working order. Pair of Eimac 4X500's, modulated by pair of 810's.. 750 watts audio. 2850 volt, 750 ma supply, 872's; 815 driver, clamp tube keying, all paneled except pwr supply, rack mounted. Metered throughout, coaxal relay(Dow Key One KW job), wiring cabled. Wish to sell immediately, first $165, hauls it away. Six element Telrex six meter beam. SWR measured at 1.1-1 at 50.016, will ship to you for $42.50 (Only on air six weeks.) Finest converter of them all..Filter King, six weeks old, with power and coaxial cables. Will ship for $40. Super Pro, re-conditioned, cannot be told from brand new edition. (mint shape). Covers 100KC-400KC, 2.5-20 megs. Makes excellent IF strip for VHF-UHF converters, with matching supply. First $100. You can have the whole lot for $325. (You pay shipping.) Bob, K6EDX, 4832 North Fruit Ave., Fresno 5, Calif. Phone BAldwin (BA 9-8403).

TRADE: Brand new 1958 Rolleiflex Automatic 3.5, with built in light meter and case in original box. Want single-sideband exciter, Herb. K6KID, MUtual 8507 or POplar 2-6018.

KW-1, Johnson KW antenna tuner. 80 ft. crank-up tower, Heathkit AR3 receiver, New RCA 500 watt modulation transformer with screen winding, Gonset 15 meter beam, Stancor ST202-A, 2 KW split-stator tuning condenser. 2200 vdc at 710 mills oil filled plate transformer several chokes, condensers, meters, and misc. Write for list. Bill, W6VPO, 10815 Rose Ave. Ontario, Calif. LY 8-2292.

WANTED: Jennings vacuum variable 300uuf type UCS. Cardwell 1500uuf variable type 8013, Weston 0-250ma model 301 Bakelite case, three 4-250A tubes, Ripley model 18433 blower 21CFM, B&W BTEL turret assembly, B&W model 850 pi-tank inductor. Thordarson T21F07-A 5 volts 29 amp filament transformer. Larry Kieber. K9LKA, Belvidere, Illinois.

FOR SALE: Cleaning house! The following gear: RAQ-5 rcvr $45. Pwr supply and audio section $25. Neck-phone cw xmtr $45. cw homebrew xmtr $10. Elmac A-54 xmtr $45. Lysco 75 mtr mobile xmtr $10. S-77 rcvr with phones $69.50. Gonset I 2 meter 15 hours use $149.50. Comb. 180 watt power supply $15. RAK-7 rcvr $25. 6146 xmtr. homebrew $75. Portable 75 meter rig with 110 V supply $45. 75A 3 $395. Viking II with ECO $225. H. Kennedy, W6GTL, OX 4-16270 eves. OX 4-26 75 days.

FOR SALE: Gonset IIB, 2 meter, complete never used mobile, 12 volt, with original carton. $165. AT 2-3131 Ext. 61, days, OX-ford 8-5695 evenings.

FOR SALE: 40 ft wood tower solidly constructed, base 5 feet square tapering to 18 inches at top. No guys. Will handle anything $35. OXbow 5-9081.

FOR SALE: SSB exciter, crystal phasing and crystal filter, for carrier suppression 4 mc output. Complete with voice control and carrier insertion. Covers 75 phone band, 6AG7 output, separate VFO and separate 807 final. Exciter $50. VFO $20. 807 $20. Liblick W6FWU. RAymond 3-2325. 320 E. Riggin. Monterey Pk

HELP CLEAN OUT GARAGE: XYL needs new clothes. $20. takes all. Dynamotors, 75 meter xmtr, 2 meter & 10 meter xmtr. Misc. BC-375E tuning units, brand new capacitors boxed. 12" dyn. spkr. Couple 5" spkrs. Much more. Selsyn motors, interphone amplifiers. etc. O.L. Snider W6ENQ, POplar 2-7060.

SACRIFICE NC300 with speaker, calibrator, and national two meter converter for $295. Also Johnson Pacemaker SSB transmitter in excellent condition for $295 Sell all of above for $575., or include Johnson matchbox for $600. Jim Gilliam, W6TDO, La Puente. Phone EDgewood 6-1538.

WANTED: 6 meter radio frequency final for kilowatt 'phone transmitter. Zelubowski, 2615 Gosnold Ave., Norfolk, Virginia.

LIKE NEW: Six meter communicator III, $225. Jim, W6CYM, 8802 E. Imperial, Downey. TO 1-3416.

WANT: S-53-A. Will trade Argus C-3 camera or write & quote price. Pat Krig Top of Park Dr., Wrightwood, Calif. Phone 32.

WANTED: 75A4 KW commercial xmtr. Hugh Slate, MUtual 2116, 417 S. Hill, L.A. Calif.

BRASS POUNDERS: Complete medium power rig for $225. Viking Navigator, WRL Globe linear amplifier and Johnson matchbox, all factory wired and in new condition. Nothing over three months old. Works like a charm at 300 watts input. Cash deal only. Sell Navigator alone for $115. W6VIV, Costa Mesa. LIberty 8-1679.

FOR SALE OR TRADE: Complete 10 meter mobile station, consisting of Stancor xmtr 30 watts in. Ginset 3-30mc converter. Pioneer dynamotor 600v 200ma. TNS noise limiter. All parts for field/sig. strength meter. 10 meter whip with heavy duty mount. All meters, plugs, push to talk mike, etc. In operation only 6 weeks. Excellent condition. Good results. NEED: Will sell for $90. or trade for in part or full payment 100 ft. tower, long John antennas, Conelrad equipment, 6' 19" rack, 2 antenna rotating motors and direction selsyns. Tape recorder. Call after 3:45. Joe R. Parr, 4711 E. 56th. St., Maywood, Calif. LU 5-1764.

WANTED: Used Hallicrafters or National receivers at low prices. Have new Temco 75GA in factory sealed crate. Make offer. R.E. Rice Box 631, San Bernardino, Calif.

FOR SALE: Hallicrafters S27 AM-FM rcvr, 28-143 Mcs; Superpro w/power supply; 6V dynamotor 475V@260ma; xfmr 2500V@250ma, dual primary. A.A. Baron, K6YSB, 56 Tamalpais Rd., Berkeley, Calif.

SELL OR TRADE: Panadapter 3 inch, 455 K.C. IF, 115 volt 60 cycle power, 5 inch Panadapter 115 volt supply 30 mc, IF, input easily modified. Would make good monoscope. Both new. One new SC-10 recorder this machine records on tape by ink CW signals up to 400 words per minute. Just connect audio out of your receiver into it. Direction finding receiver 110 volt 60 cycle tunes 200 K.C. to 2000 K.C. with loop. T/47A-ART 13 unmodified. Pair new sealed 4-250 Penta Labs 5D22s. New 4x150As. 4x150 Gs. W7-HCJ Ralph Farano 308 M. Locust, Spokane 62, Washington.

FOR SALE OR TRADE: 10 meter mobile station, Gonset 10 converter, Lysco xmtr. carbon mobile mike, ant. coupler, dynamotor. $35. 160 watt ARC 5 CW rig with power supply, 40 meters. $30. DX-35 $50. Heath Q-Multiplier with power supply $12.50 SX-28 with xtal calibrator $130. Plate Xfmr 117 vac Sec. 950 vct 200 ma $10. Power xfmr 117 vac Sec. 760 vct 225 ma. 5v 3a. 6.3v 5a $5. 400 volt dc 6.3 & 5 volt AC power supply $8. 4 element 10 meter beam (Jan. 58 QST) with 30 ft pipe pole $40. All band mobile loading coil $15. Viking Adventurer with built-in plate mod. separate AC pwr supply & VFO $100. Bob K6RAG, 866 Drake Ave., Claremont. LY 6-6221.

FOR SALE: Viking 2 with VFO $200. W6-KPV. E.J. Martin. 324½ No. Adams, Glendale 6, Calif.

FOR SALE: Hammarlund HQ-129X excellent condition. Market $159, asking $140. Hal Hendricks W6DQU, SY 4-6012.

LOOK: 1 Wyco cabinet, black wrinkle finish, door in top, takes 8¼x19 inch panel like new, only $7.50. 1 Bud cabinet, black wrinkle finish, door in top and rear, panel space 26¼x19 in., only $12.50. W6NJV. P.O. Box 1025, Ontario, Calif.

AMATEURS ATTENTION: Now stocking most lines of amateur gear. Trade-in's and mail orders our specialities. Bowie Electronics, 10815 Rose Ave. Ontario. Calif. Phone LY 8-2292. Store hours, evenings by appointments, weekends 8 AM to 12 PM. Sundays included.

STOLEN: BC-221-P Frequency meter, with AC power supply in lower compartment. W6GTE, LO 9-2465.

HIGH POWER COMPONENTS: Two plate transformers. Input 115 V. 60 cycle, output 3000 V.C.T. @ .300 A. $7.50 ea. One capacitor. 3 mfd @ 4000 V. $2. Entire lot $20. W6NJV, P.O. Box 1025, Ontario, Calif.

WANTED: Used Black Widow for 6 or ten. Have for sale UTC chokes S-37 and S-38. Several 813 tubes. Stancor 110-220 volt AC power transformer type P8029 with 1500-1250-0-1250-1500 secondary. 550 Ma. W5CQY/6, 3410 Idlewold Way, San Diego 17, Calif.

WANTED: Philco model 7008 sweep generator. Call ORegon 8-4842.

WANTED: 75A4 and KW mfd. xmtr. MUtual 2116, Houston Slate, 417 So. Hill St. Suite 670, L.A. 13, Calif.

VIKING VALIANT FOR SALE: 9 months old, factory wired, under 80 hrs use. $345. Phone, ELliott 9-1860 or write 783 Oakglade Dr. Monrovia, Calif.

FOR SALE: Hammarlund HQ140X like new, with speaker. $165. National 101X $65. Hallicrafters SX24 $50. W6EYH, 1746 Denison St., Pomona. LYcoming 2-0896.

FOR SALE: Pierson KE93 receiver with AC power supply and mobile power supply $200. Chicago P1512 high voltage power transformer $20. Call after 7:30 PM. EDgewood 9-8479. Trigg, K6YWJ.

Codemaster $12. Shure mike CB-12-D $10. Thordarson transformer $8. Type T19P54 1120vct. Electricians fast calculator $5. Knockout punch $6. Weston tube checker model 685-2 $25. Miller radio interference filter $19. No. 7820. Ohmite SRC-100 $6.50. Electronic photosound course code volume II $10. Protelgram model 170B(miniaturized high voltage supply unit). N. Amer. Phillips Co. $30. AT 7-7510.

QSL's Newest Designs glossy stock 2 colors 100 for $2.50. Free sample Brochure. One week service. Box 671, Hawthorne, Calif.

WANTED: Old radio and wireless sets and parts. 1928 or before. Crystal detectors, crystal sets, tubes, tuning units, parts, old battery receivers catalogues, magazines, books. All letters answered. Will pay cash or trade. Harold S. Greenwood, 2341 Ivyland Ave. Arcadia, Calif. DOuglas 7-7217.

FOR SALE: Barker & Williamson standing wave ratio bridge, plus output(wattage) meter $25. E.R. Lee. AT 6-8340 after 6 PM.

Slide projector 3D, TDC projector-view, cost $145. less screen. Trade for band-switching VFI xmtr or exciter. Al Liblick W6FWU. RAymond 3-2325.

FOR SALE: 40 ft crank up tower. ATlantic 7-5837.

MUST SELL: Hammerlund Super-Pro Rcvr. Complete with R and P power supply and speaker, cables, etc. Range 540 to 2500 kc and 2.5-20mc. In excellent condition and recently aligned. Complete with manuals, etc. Military model no. BC-779-A-B power supply RA-94-A asking $100. Sub-Miniature D.C. tape recorder with leather case, etc. Only used about 12 hours. Excellent for mobile and/or business. Mowhawk Midgetape, complete with mike, speaker, 3 magazines, extra batteries, spare tubes, diagrams, etc. Original net cost $210. Asking $100. Might consider partial trade of mobile gear. David R. Hooker, 1004 Wiladonda, La Canada. SY 0-3548.

ENTIRE STATION: WILL TRADE OR SELL: SX-99, Globe Chief 90(90 watt on CW), Heath VFO. Will trade for Communicator or Black Widow or mobile receiver and transmitter. See whole rig operate. Bob. K6GKU. AT 6-4886 eve or weekends.

New 2 meter Communicator II, BC 221, 3 pc. leather sectional good for den or office. Best cash offer or will trade for Shopsmith Mark 5, drill press, table saw, misc. power tools or camera equipment. No junk please. Also looking for small 6 to 8 cubic foot chest type freezer. Bob Wood W6ZLA, 1805 No. Frederic, Burbank. TH 2-3472 after 7 PM or weekends.

1 cabinet 22x17½ deep x 66" high. 1 cabinet 15"x19"x35" high. Angle iron frame. Make offer. Al Liblick, W6FWU, RAymond 3-2325.

FOR SALE: Viking Ranger factory wired like new $200. Vacuum variable 10-300 mmfd 10Kv Jennings new condition $30. Gonset 20 meter beam excellent $20. Xfmr. 3600vct 400ma with screen winding 1100vct 200ma $15. Ed Bruno, HIllcrest 7-5779. After 7 PM.

FOR SALE: DX-100. Must move overseas. $135. COngress 2-6737. 942 Kelton Rd. San Diego.

Codemaster $12. Shure mike CB-12-D $10. Thordarson transformer $8. Type T19P54 1120vct. Electricians fast calculator $5. Knockout punch $6. Weston tube checker model 685-2,$25. Miller radio interference filter $19. No. 7820. Ohmite SRC-100 $6.50. Electronic photosound course code volume II $10. Protelgram model 170B(miniaturized high voltage supply unit). N. Amer. Phillips Co. $30. AT 7-7510.

TRADE: KP-81. Will consider 2 meter Gonset 12 volt Communicator II in good condition. Bill Cram. W6VIH. GIlbert 4-2147.

WANTED: RME DB22A or HF 10-20. K6BXS, OXford 2-3567.

FOR SALE: National HRO-50T1 receiver with matching speaker, calibrator, select-o-ject, coils A,B,C,D,E,AA,AC, $250. Complete 30 watt 10 meter mobile station including transmitter, converter, mike, control box and cabling, seven crystals, whip and mount $60. Excellent homebrew 125 watt transmitter similar to DX-100 $75. Aluminum 10 meter ground plane antenna $12. Multiband dublet antenna $6. Heavy steel-sectionalized 30 foot mast with hinged base $20. Heath Q-Multiplier $8. K6EVY, 3923 Knoxville Ave. Long Beach 8, Calif HArrison 9-1248.

ELECTRONIC "GOODIES" GALORE: Homebrew television camera, complete with 5527 iconoscope, F1.9 lens $30. CRV-59AAE brand new, six hours on ke. Converted, less power supply $75. Two meter walkie talkie xtal controlled transmitter, rf amplifier in receiver. Beautiful chrome plated case, must be seen to be appreciated $35. Allied "Knight" 50 watt cw transmitter, 807 final fine business for the Novice $25. Heath VF-1 VFO new and not a scratch on it $15. WRL screen modulator complete with tubes $10. WRL Novice antenna coupler $7.50 both units brand new. PE-104A power supply for TBY transmitter $3.50. Small bud table-top cabinet, holds two 19 in. rack panels, brand new $10. Standard coil tuner (Neutrode) $3. Plug-in power supply plus 150- minus 150 $3. 2AP1 cathoderay tube $1. 30 kv. coil for rf power supply $2. Blowers-single and dual $1. $2. 3-6 mc command set receiver $4. Alliance T-10 antenna rotator, just right for a six or two meter beam $12. Heath AR-3 receiver cabinet new condition $2. Homebrew phonepatch unit $3. W6TNS, P. O. Box 137, Ontario, Calif.

MOBILE ANTENNA: Spring mount (new $15) Bumper mount (new $7.95) 3 ft base (new $4.) master mobile all-band coil (new $14.) (Cost over $40.) complete $15. 60 ft crank up tower CDR H.D. rotor with compass rose indicator complete WRL Tri-bander beam 10-15-20 (work over 100 countries on phone) low SWR. Sell complete. Reasonable. Dynamotors 12v 500v-200 ma's all ready to go mobile $15. High power dynamotor 12v 1000 350 ma brand new. Orig. box. $25. Mobile mikes $3. KW xmitter parts-meters-tubes Texas mobile all band 10 thru 80 whip antenna. One coil adj. whip to freq. band. Cost $30. take $15. K6DAC, 530 El Sur, Duarte. ELliott 9-3866, eves.

ATTENTION PRESENT OR PROSPECTIVE 20A, 10A, 10B, owners. We have a limited quantity of BC-458's, brand new and ready to be converted as VFO's. Just send check or money order for $6.95 to Western Radio & TV Supply Amateur Store 1331 India St., P.O. Box 1728, San Diego, Calif.

COLLINS 800 Cycle filter F455J-08 for 75A-4 receiver-perfect-$30. Central Electronics sideband slicer and Q-multiplier combination on factory mounted gray rack panel, $50. Prepaid. No trades. John Knight, W6YY, Mount Wilson Calif.

Gas generator 28VDC 50amp, unregulated $35. Gas generator 28VDC 50amp. regulated $50. Amertran 2KW plate trans. 300-0-300 vac. Sec. 110vac 60 cycle pri. $45. Kenyon 5v-60amp fil. trans. $8. 1 Hy. 800ma. (15KV insul) choke $3. 50. Choke 12 Hy. 500ma. $5. B&W ½" spacing HD butterfly, $6. Straight shaft split-stator, $5. 4-125A $14. 829 $5. 5D21 $9. 304TL $10. 3-4mc ARC5 $6. 3-4mc command rcvr. 110vac $15. 1/8 Hp antenna motor 50rpm $5. Will trade for 6' rack cabinet or 450TH. 11 ft 4 inch plywood pole section $2. can be made to 55 ft. pole.1 small prop motor, W6RW. 8600 Skyline Dr. L.A. 46. OLfield 4-3714.

WANTED: Transmitter receiver and test equipment for cash immediately. K6DAC, 530 El Sur. Duarte. ELliott 9-3866.

Elmac PMR 6A all band receiver, AF54H transmitter, 110 volts with complete mobile case has speaker, phones, key, mike. Perfect condition. $220. GEneva 9-4684.

FOR SALE: SX85 with a Q multiplier. new condition $95. K6JCS, PArkview 1-1759.

FOR SALE: 40 foot steel telescoping tower plus 15 foot steel section, needs slight repair, $50. Meissner, signal shifter EX (10-20-40-80) with power supply and FM modulator - excellent condition, $40. New TBY-6 Transceiver partly modified for 6 with 110 VAC power supply. $60. W6JQI. Call OWen 7-8937 after 7:00 PM.

FOR SALE: Really fine buys on SX-99 perfection condition, sacrifice $99. RME 152A-Converter 11,10,6,2 like new, $45. Navy Super Pro- good condition with separate power supply, just realigned, $55. Heath Antenna coupler $6. Johnson Viking VFO model 122, $22.50. W6LEC, Don Cordray, 6803 Amestoy Ave. Van Nuys. DI 4-1736.

WANTED: 500 watt Multi-Match modulator, no junk, will pay a fair price for good equipment. Prefer complete set up, from speech amplifier up to & including H.V. supply for modulators. Will buy any of above separately if suitable. Joe E. Bush, W6CYV, AT 6-1595.

FOR SALE: National MB40SL $10. BC458 VFO for 10B or 20A $20. W6VBI, 2528 Eastern Ave., Sacramento, Calif.

FOR SALE: U.S. Navy RBU-2 Panadaptor like new and large carton containing 140 brand new spare parts for the RBU-2 $135. 3 element 10 meter beam with T-match. $9. Two coaxial antenna relays. $5. each. Prefer no shipping, K6DZC Nelson Carr 1588 Corson St. Pasadena, Calif. SY 2-1716 after 7 PM.

FOR SALE: S-85 rcvr, excellent condition $90. Factory wired Globe chief, with Knight VFO $85. together, $165. Joel K6VHU, OX 6-0672.

SELL: HRO-60 receiver with A-B-C-D and AC coils, crystal calibrator, speaker, $375. W6QVN, EMpire 9-8492, after 6 PM. or week ends.

FOR SALE: 75 meter mobile xmtr, with 6v power supply $35. QST's for Jan. July to Oct., Dec '38, Sept. '37. May, July, Dec, '36. June '35. Sept. '34. 10 meter converter, fixed station $15. Alltronics teletype converter, with polor relay $65. 1957 ARRL handbook $2. Corky Kirk, W6ORS, 1833 Vega, Alhambra. AT 9-1272.

DX-100 xmtr. $195. Push to talk installed full variable loading capacitor in pi-network. Exceptionally clean. May be seen and operated or will work you on the air. Guaranteed 100 watts output Call Bob Thompson K6SSJ, 5513 Halison St. Torrance, Calif. FR 9-0822.

FOR SALE: Hallicrafter S40B $75. BC348M $45. BC348P $45. Heath Q multiplier $9. Elmac A54 mobile transmitter $85. power supply for same $20. ARC5 7-9 Mc transmitter $9. BC 453 receiver new $9. Electrovoice 600D dynamic mike $8.50 20 watt Williamson amplifier $20. Dumont 224A oscilloscope $50. Dumont 150 Electronic switch $7. 50-100 Kc coil for HRO-5 $5. Heath Impedance Bridge $35. Weston 665 voltohmeter $5. Tripplett 1200G voltohmeter $15. BC221 frequency meter $40. LM no book $9. 0-50 microamp. 0-150 microamp and many other meters. Set of 4 Millen absorption frequency meters $9. Miscellaneous trans. tubes, 7.5 amp G.E. Variac $10. Webster all band mobile antenna $15. 10 meter whip $2. 400 ma choke $4. 500 ma choke $5. Odd QSTs back to 1923. Call W6EH, Hollywood 2-2429 after 6 PM.

65 ft. tower with Tri-Band beam, 10-15-20. (Worked over 100 countries on phone). With heavy duty CDR rotator and compass rose indicator. Will sell complete with coax. Mobile PE-103 converted to 12 volts, with cables. $10. Also a 1,000v 350 ma dynamotor for hi power mobile. Brand new $20. Will trade for photography equipment. K6DAC, 530 El Sur, Duarte. ELliott 9-3866.

Will swap for a 1 KW B&W band switching final tank and a pair of 811A's. Or will sell a new 60 ft Donner heavy duty wind damaged crank up tower. Can be repaired in a few minutes to 50 ft. M.D. Cobb, K6VEF, 11835 S. Dollison, Norwalk.

CRC Transceiver converted to 2 meters $10. G.E. pre amp for reluctance pickup $1. O.L. Snider, W6ENQ, POplar 2-7060.

TRADE FOR BOAT OUTFIT: Complete 200 watt all band ham station, consisting of HQ129X and speaker, Globe Scout, WRL LA-1 amplifier, WRL PA-1, Lysco VFO, B&W low pass filter, CDR rotator and indicator JT30 mike, 3 element 10 meter Telrex beam, relays. 1 switch operation. In compact attractive cabinet. All excellent condition, Don, K6-CPN. Tujunga, Calif. FLorida 3-0531. Between 6 and 9 PM.

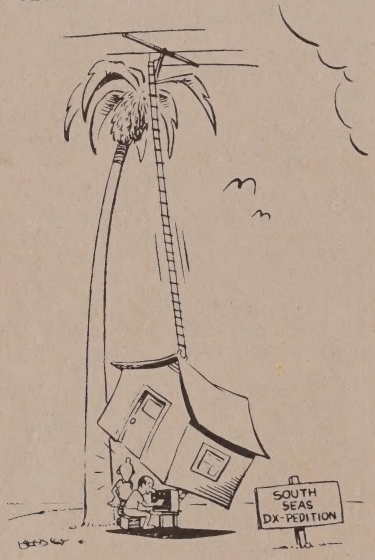
FOR SALE: Beat up collectors item. A Century 5x7 camera. 3 cut film holders six hangers. $30. Just the thing for magazine articles without enlarging, see pictures back issue Ham Ads. W6BLZ 528 Colima St. La Jolla, Calif.

FOR SALE: Tape recorder $25. Dr. Porter AXminster 4-6355.

KEEP COOL: Thermador evaporative cooler 8 cubic ft., new pad in it plus one new spare, only $15. W6NJV. P.O. Box 1025, Ontario, Calif.

Viking II, factory wired, keying and audio modifications. Meissner EX VFO Low pass filter. Co-ax relay. Mike. $250. Two-meter SCR-522 Transmitter, power supply, mike, converter. $40. Don Copeland, 10219 Belcher St. Downey. Phone CApitol 2-5196 Sat. & Sundays and Wed. eves.

FOR SALE: SX-88 modified as per article in Dec 1957 Ham Ads $495. Want to order a Racal RA17C, must sell this first. W6GMC, Phone EL 8-0831.



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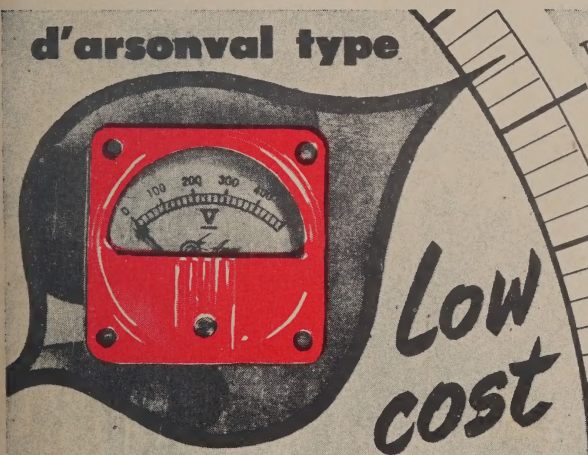

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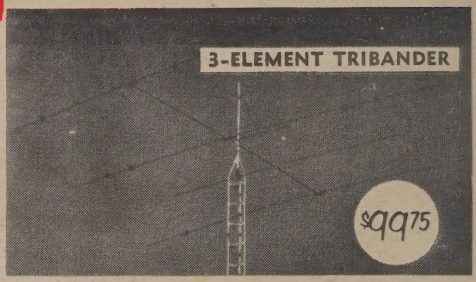

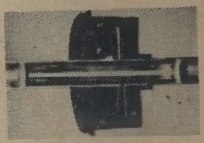

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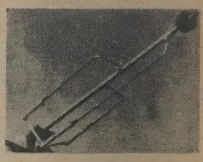

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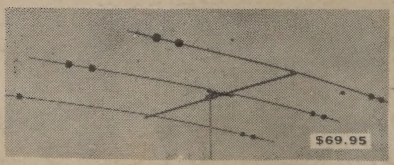

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